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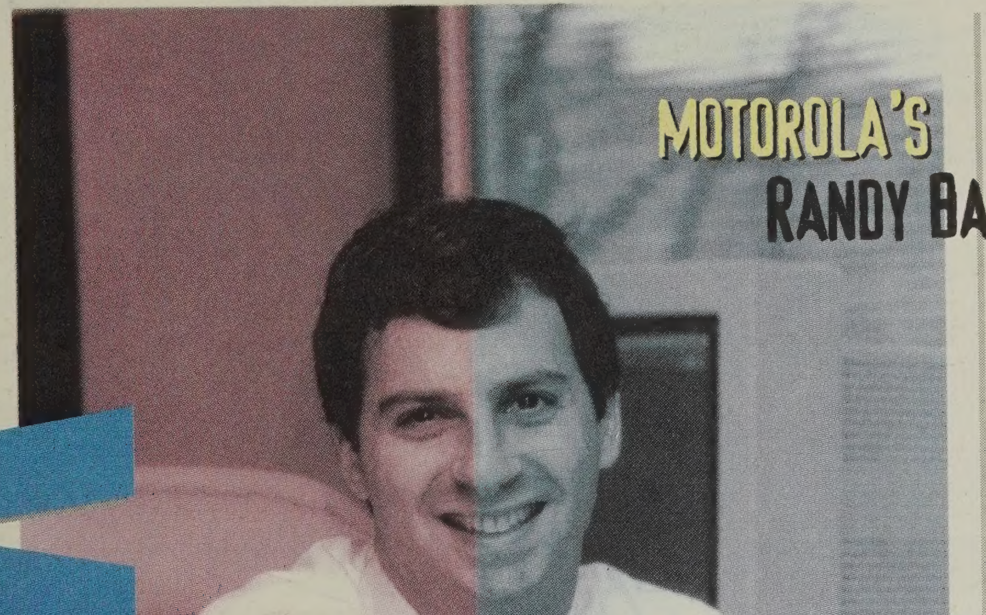

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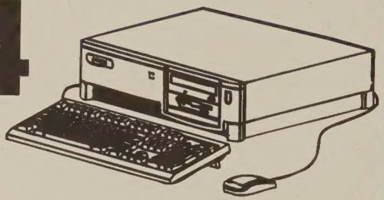

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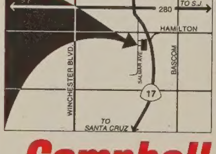
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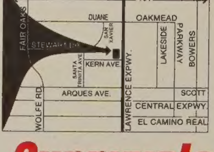
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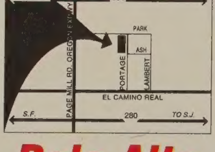
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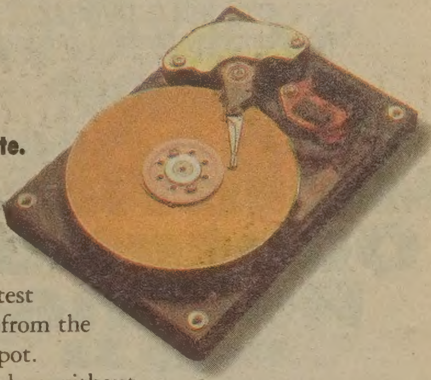

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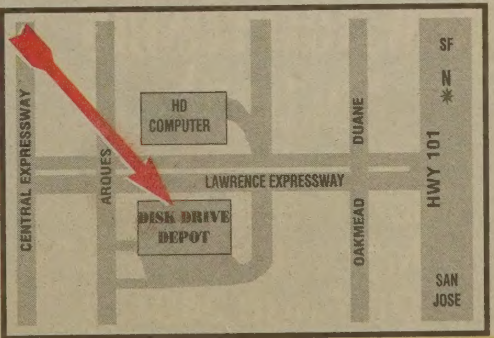

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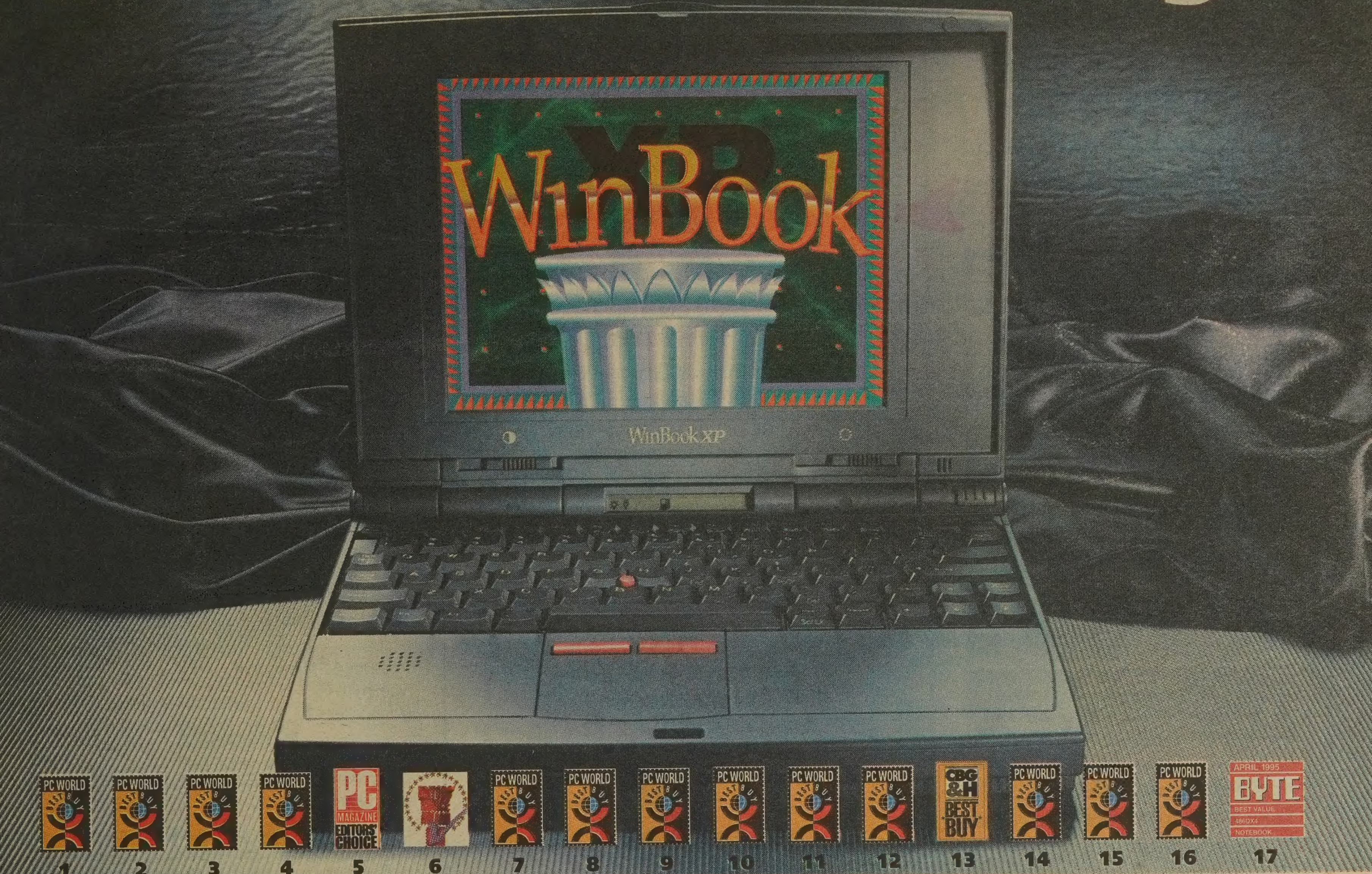

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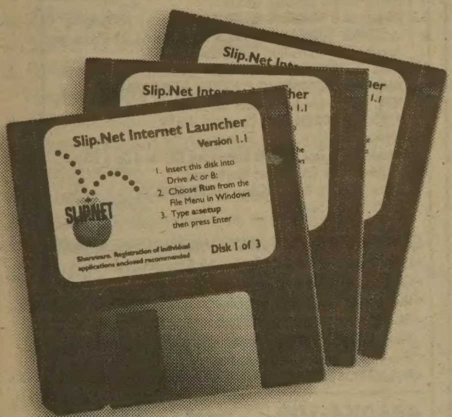

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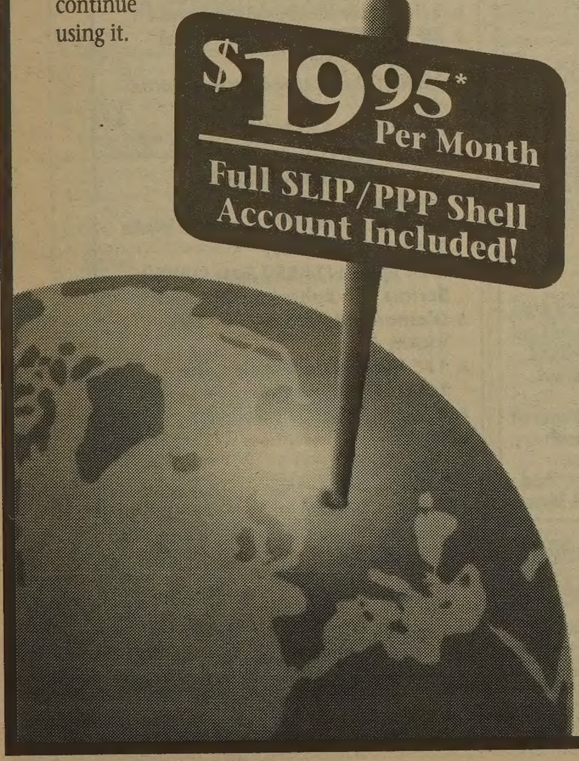

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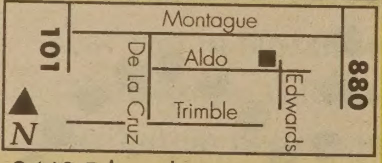

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Contributors
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Birrell Walsh (*birrell@well.sf.ca.us*) is a contributing editor for *MicroTimes* and a freelance writer for *BYTE* and other magazines.

Jim Warren has received the Hugh M. Hefner First Amendment Award (1994), the James Madison Freedom-of-Information Award from the Society of Professional Journalists—Northern California (1994), and the Electronic Frontier Foundation Pioneer Award (1992, its first year). He led the successful 1993 effort to make state legislation and statutes available via the public nets without state fees.

He organized and chaired the landmark First Conference on Computers, Freedom & Privacy (1991), founded *InfoWorld*, was founding host of PBS's *Computer Chronicles* and founding editor of *Dr. Dobb's Journal*, and has chaired various computer and mathematics organizations. He holds graduate degrees in computing (Stanford), medical information science (UC Medical Center), and mathematics and statistics. He began working as a programmer in 1968, and was a mathematics teacher and professor for ten years before that.

Correction

Due to a case of temporary dyslexia, we managed to misprint the phone number for Dick Shaffer's Technologic Partners in last issue's "Venture Capital and the Internet" story. The correct number is (212)343-1900. Our apologies to those who have been inconvenienced and/or irritated by this. In addition, for those of you without email capabilities, Ann Winblad and Hummer Winblad Venture Partners can be reached at (510)652-8061, Kevin Fong and the Mayfield Fund at (415)854-5560, and Anthony Perkins and The Red Herring at (415)865-2277. —eds.

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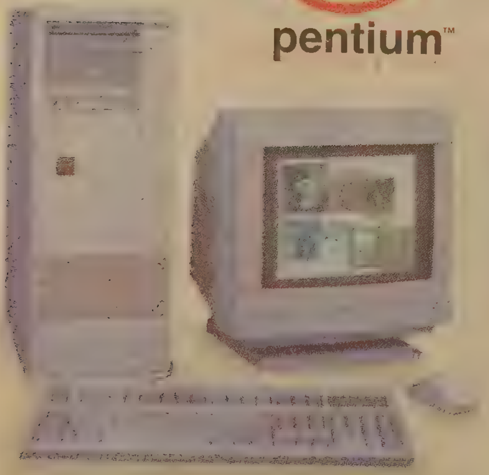

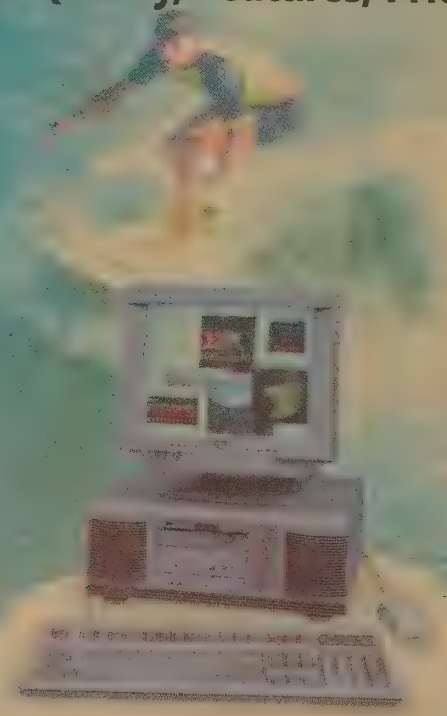

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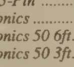

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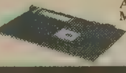

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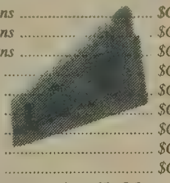

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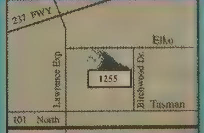

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News and Views

BY PAUL HOFFMAN

Industry Insights

Will Microsoft Network Fly? Stay Tuned...

Windows 95 is having the hardest time getting out the door. First it was the bugs (well, it is probably still the bugs). Then it was the installation problems. Now it's Microsoft Network, Microsoft's new online service that comes bundled with Windows 95.

By the time you read this, Microsoft will have sent the final version of Windows 95 to the disk duplicators so that it can meet its often-announced release deadline of the end of August (even Microsoft can't duplicate literally tens of millions of diskettes and CD-ROMs overnight).

During June and July, the issue of whether Microsoft should be able to bundle Microsoft Network as they were showing it in the Windows 95 beta tests started to come to a head. Microsoft's major competitors, such as America Online, CompuServe, and Prodigy, started to increase the pressure on the Department of Justice to quickly look into whether Microsoft Network was anticompetitive and monopolistic. The more people looked at how Microsoft was positioning the distribution of Microsoft Network, the more Microsoft dug in its heels.

(Writing about time-sensitive news for print publications like *MicroTimes* is always a difficult task; ah, for the bright future of real-time electronic publishing. I am writing this column in mid-July, and by the time you read this, there's a good chance that the legal situation for Microsoft will have changed significantly. Or maybe not.)

The basic issues involve not whether Microsoft should be allowed to enter the online market, but *how* it will enter that market. Clearly, Microsoft could be a great online publisher, although it could also be an average one, as evidenced by its mediocre Web site. Microsoft has enough money to buy great content to sell to its users, and it has the technical know-how to create both good client software and server software. In fact, if Microsoft Network never seems slow to the millions of people who will most likely subscribe, it could be a great advertisement for the power of Windows NT as a communications server.

However, the method Microsoft is using to distribute Microsoft Network and to integrate it in Windows 95 clearly uses Microsoft's already-dominant position in the operating system market as a wedge to get and keep users at the expense of its competitors. The issues fall into two general categories: bundling, and integration with the operating system.

By including Microsoft Network with every copy of Windows 95, Microsoft has shifted the cost of distribution and marketing the online service from themselves to their customers. When you buy a copy of Microsoft Network, you are in essence paying Microsoft for the distribution and documentation of the service, whether or not you use it. This distribution cost can be incredibly significant, as anyone who has received the zillionth diskette from America Online knows. Microsoft doesn't need to advertise Microsoft Network in magazines or on TV: it just needs to send letters to registered Windows 95 users, and that's all.

> **THE BASIC ISSUES INVOLVE NOT WHETHER MICROSOFT SHOULD BE ALLOWED TO ENTER THE ONLINE MARKET, BUT *HOW* IT WILL ENTER THAT MARKET.**

The situation for hardware manufacturers, who are pretty much forced to include Windows 95 on their hardware, is much worse. Normally, online companies like CompuServe pay the hardware manufacturers big bucks to include their software on each system manufactured. As CompuServe has pointed out, the hardware companies are now paying Microsoft to distribute Microsoft Network, not the other way around. To date, Microsoft has not allowed any hardware company to include Windows 95 without Microsoft Network.

To make matters worse, the act of integrating Microsoft Network with Windows 95 makes it appear that the online service is part of the operating system. Microsoft has prevented any of its potential competitors from competing on equivalent footing by letting them integrate their software as closely as Microsoft. When you run Windows 95 the first time, you see an icon for Microsoft Network, with no indication until after a series of dialog boxes that you have to pay extra for the service, and that you don't need to use the service at all in order to run Windows 95.

If Microsoft allowed its competitors to bundle their software the same way Microsoft does, they would have much less to complain about. But, even if Microsoft said today that it would make the links to integrating online software to Windows 95 an open system, it is likely that Microsoft would prevent competition the way it has consistently done in the past in similar situations, such as with its supposedly open elec-

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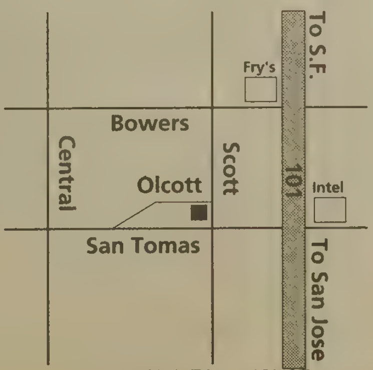

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tronic mail standard. Microsoft would deliver the linking software late; it would be incomplete; Microsoft would keep changing the rules; it would require its competitors to sign one-sided contracts; and it would move its software ahead while its competitors would be trying to play catch-up.

If this all sounds pretty anticompetitive, it is. However, it is not clear that the US Department of Justice will do anything about it. The DOJ has been making serious inquiries into the bundling of Microsoft Network so that it might possibly prevent Windows 95 from being released with Microsoft Network, but at the time of this writing it is unlikely that the DOJ will move fast enough.

The DOJ then has the option of stopping Microsoft Network after it has been released, but the chances of that are incredibly slim, given the department's reluctance to do anything about Microsoft other than prevent its merger with Intuit.

If Microsoft is successful in releasing Microsoft Network with Windows 95, it will probably hurt, but not kill, Microsoft's competitors in the online market. Prodigy, CompuServe, and America Online will probably continue to grow, but not as fast as they did before, and they'll be forced to react to Microsoft's online moves in the same way that they have been forced to compete with each other more in the past year.

For online users, Microsoft Network could be a really great thing, depending on how Microsoft prices the service and how well it supports it technically.

By including Microsoft Network with every copy of Windows95, Microsoft has shifted the cost of distribution and marketing the online service from themselves to their customers.

Adobe Buys Frame, Boca Buys Hayes: Content vs. Name Recognition

Summer seems to be the season for companies to buy their competitors. Two recent friendly buyouts of major computer companies points to some of the major motivations that drive the market for computer companies.

Adobe System's purchase of Frame Technology, maker of the FrameMaker page layout package, was ostensibly a way for Adobe to make more serious inroads into the UNIX market, where FrameMaker is strongest. FrameMaker competes with Adobe's well-known PageMaker program, although in different niches of the document preparation market. While PageMaker is best suited for small jobs with lots of custom design on each page, FrameMaker is best for long documents with consistent designs such as books, catalogs, and manuals.

Both companies have recently begun offering products that allow their customers to put their documents on the Internet in a way that users can access easily.

Frame has not been able to penetrate the PC and Macintosh markets as well as it wanted to, and generally had to cede these markets to Adobe and others, even though FrameMaker for those platforms runs just as well (if not better)

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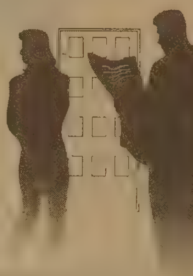

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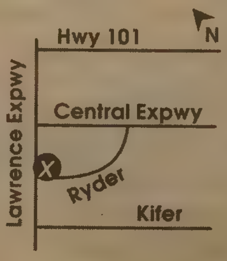

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than it does on high-end UNIX systems. Adobe's wide range of interoperating products was able to bring more users into the PageMaker fold, and now it will be able to use FrameMaker on UNIX platforms as a springboard for sales into the still-growing UNIX market.

Last November, venerable Hayes Microcomputer went into bankruptcy, citing a severe cash flow problem due to rapidly falling prices for its products. Hayes is a privately held company, and because of its huge name recognition, was able to float reasonably through Chapter 11 proceedings and stay in business. However, it didn't look like Hayes would necessarily ever make it out of Chapter 11, and it quietly started looking for an investor.

Boca Research, a low-price modem and peripheral manufacturer, came to the rescue early last month and bought the company, including the fairly valuable Hayes name. Boca has been quite successful with its line of inexpensive commodity items such as modems and graphics boards, and was thus able to trade enough stock to buy Hayes.

The likely outcome is that the modems with the Hayes name will continue to be available; Hayes's off-brand line called Practical Peripherals may or may not survive the merger.

In contrast to the Adobe-Frame buyout, Boca bought Hayes mostly for its name recognition. Modems are almost completely a commodity market, driven mostly by price and standards, with only small segments of the market driven by quality. Hayes used to be known as the standard, but in the past few years other companies were easily able to create competing modems that met all standards very quickly, and apparently more cheaply than Hayes. After the final release of the most recent standard for modems, the V.34 standard for 28.8K modems, most of Hayes's competitors were able to come out with their modems within a month or two of Hayes. More embarrassingly, Hayes did not score at the top of almost anyone's modem ratings for these new modems.

As computer users have seen in previous buyouts over the years, such wholesale company purchases usually do not cause much of a change in the products or their marketing.

However, the next versions of the software, particularly the software of the buying company, usually see a marked difference. Unfortunately, the level of technical support for the products of the purchased companies often diminishes as the buying company is slow to integrate the bought company's support organization. Already, Lotus's customers are voicing concern for how well IBM can support a program as dynamic as Notes.

In the case of FrameMaker, Adobe has a pretty good reputation for software support; in the case of Hayes, Boca's reputation is mainly unknown. ■

Stock Chart on page 27

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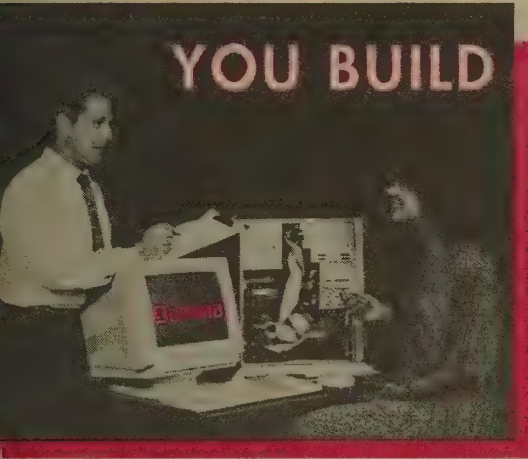

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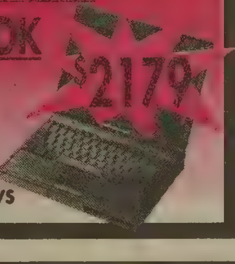

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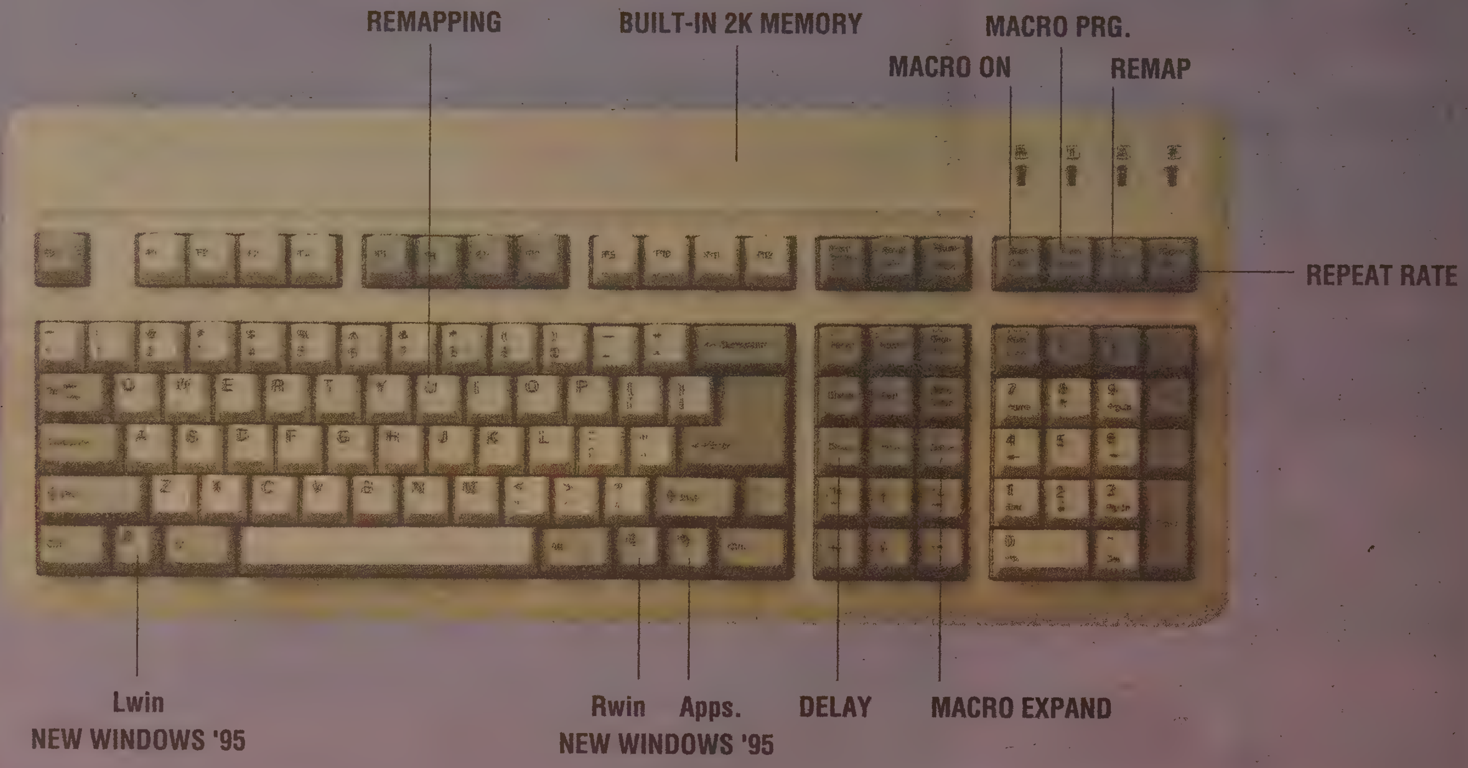
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MicroTimes Stock Index Continues Rally

MARKET DIARY:

ADVANCES........................	14
DECLINES..........................	14
UNCHANGED....................	2
NEW HIGHS.......................	16
NEW LOWS........................	0

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER..............................	IBM	$	10.75
LARGEST DOLLAR LOSER..............................	Advanced Micro Devices	$	-4.38
LARGEST PERCENTAGE GAINER..................	Tandy		12.62 %
LARGEST PERCENTAGE LOSER....................	Advanced Micro Devices		-12.37 %

	CLOSE 07/05/95	CLOSE 08/02/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7437.77	7501.51	63.75	0.86
DOW JONES INDUSTRIAL AVERAGE	4615.23	4665.85	50.62	1.10
STANDARD & POOR'S 500 INDEX	547.26	558.80	11.54	2.11
N.Y.S.E. COMPOSITE	293.21	298.95	5.74	1.96
NASDAQ COMPOSITE	941.82	978.76	36.94	3.92

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
01/18/95	5832.57	3928.98
02/16/95	5961.54	3987.52
03/15/95	6042.96	4038.37
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85

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EXCH	COMPANY	TICKER SYMBOL	CLOSING PRICE 07/05/95	CLOSING PRICE 08/02/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEN RATE	ANNUAL IVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE										
OTC	Adobe	ADBE	59.00	58.63	-0.38	-0.64	107	0.20	0.34	66.50	27.25
OTC	Autodesk (H)	ACAD	43.00	46.25	3.25	7.56	35	0.24	0.52	50.25	24.63
CTC	Borland	BORL	12.94	11.81	-1.13	-8.70		0.00	0.00	14.38	6.00
OTC	Informix (H)	IFMX	26.50	28.50	2.00	7.55	48	0.00	0.00	32.38	9.63
OTC	Lotus	LOTS	63.88	63.88	0.00	0.00		0.00	0.00	64.13	25.00
OTC	Microsoft (H)	MSFT	90.69	89.00	-1.69	-1.86	[illegible]	0.00	0.00	109.25	52.00
CTC	Novell	NOVL	19.75	17.50	-2.25	-11.39	34	0.00	0.00	23.25	13.75
OTC	Oracle (H)	ORCL	38.75	39.63	0.88	2.26	40	0.00	0.00	44.00	24.38
OTC	Software Publishing	SPCO	3.50	3.50	0.00	0.00	44	0.00	0.00	6.25	2.88
OTC	Symantec	SYMC	27.88	26.63	-1.25	-4.48	26	0.00	0.00	30.00	11.13
	HARDWARE										
OTC	Apple	AAPL	46.50	44.38	-2.13	-4.57	11	0.48	1.08	50.13	32.13
OTC	AST Research	ASTA	16.00	15.00	-1.00	-6.25	-	0.00	0.00	19.25	10.38
NYS	Compaq (H)	CPQ	45.38	49.38	4.00	8.82	15	0.00	0.00	52.88	30.75
NYS	Digital Equipment	DEC	40.13	43.13	3.00	7.48	288	0.00	0.00	49.50	19.63
OTC	Dell (H)	DELL	60.13	63.25	3.13	5.20	16	0.00	0.00	70.13	28.00
NYS	Hewlett-Packard (H)	HWP	76.13	72.50	-3.63	-4.76	19	0.80	1.10	83.75	39.50
NYS	IBM (H)	IBM	96.75	107.50	10.75	11.11	13	1.00	0.93	111.75	61.88
NYS	Silicon Graphics (H)	SGI	41.63	39.00	-2.63	-6.31	30	0.00	0.00	45.63	23.25
OTC	Sun Microsystems (H)	SUNW	48.88	45.38	-3.50	-7.16	13	0.00	0.00	51.50	22.63
NYS	Xerox	XRX	120.38	117.00	-3.38	-2.80	15	3.00	2.56	125.88	90.63
NYS	Tandy (H)	TAN	52.50	59.13	6.63	12.62	19	0.72	1.22	59.88	37.38
	CPU'S										
NYS	Advanced Micro Devices (H)	AMD	35.38	31.00	-4.38	-12.37	10	0.00	0.00	67.50	22.25
OTC	Intel (H)	INTC	63.75	61.50	-2.25	-3.53	19	0.16	0.26	78.38	28.38
NYS	LSI Logic (H)	LSI	39.88	42.38	2.50	6.27	30	0.00	0.00	49.88	13.75
NYS	Motorola (H)	MOT	69.00	73.88	4.88	7.07	25	0.40	0.54	80.13	49.00
	COMMUNICATIONS										
NYS	AT&T	T	53.88	52.63	-1.25	-2.32	17	1.32	2.51	59.00	47.25
NYS	BellSouth Corp. (H)	BLS	63.63	67.88	4.25	6.68	16	2.76	4.07	68.25	50.50
OTC	MCI	MCIC	22.00	24.00	2.00	9.09	18	0.05	0.21	25.88	17.25
NYS	Northern Telecom	NT	36.13	37.63	1.50	4.15	23	0.44	1.17	41.00	31.25
NYS	Pacific Telesis	PAC	26.75	28.63	1.88	7.01	11	2.18	7.62	33.50	25 63

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

Technology stocks rode a wild roller coaster for the month of July, but managed to stay on track. Specifically, the MicroTimes Stock Index rose 63.75 points, or .86%, to close at another record high of 7501.51. In comparison, the Dow Jones Industrial Average gained 50.62 points or 1.10%, to 4665.85, and the S&P 500 Index rose 11.54 points, or 2.11%, to close at 558.80.

In our index, advancing issues and declining issues were even at fourteen and there were sixteen issues reaching new 52-week highs vs. zero issues dipping to new 52-week lows.

Turning To Stocks In The MicroTimes Index:

Debate began in the U.S. House on a telecommunications overhaul bill which aims to revise communications laws allowing local-phone, long-distance phone, and cable companies to compete freely. The bill considers allowing the Bell companies to enter into the long-distance industry. Last month, shares for BellSouth Corp. rose 4.25 points, or 6.68%, to close at $67.88.

Tandy Corporation reported sales of its continuing U.S. and Canadian retail operations for July, 1995 of $385.1 million, compared to $308.6 million for the same month last year. Shares for Tandy Corporation gained 6.63 points, or 12.62%, to close at $59.13, emerging as the largest percentage gainer in our index.

IBM Corp. said it has not yet signed a licensing agreement to use Windows 95 on its PCs. The delay in the agreement could hurt IBM in the next few months if competitors beat the second biggest personal computer maker with Windows 95 systems. IBM Corp. increased 10.75 points, or 11.11%, to close at $107.50, representing the largest dollar gainer in our index.

Motorola Inc.'s cellular infrastructure unit said it will spend $30 million to expand its Fort Worth cellular equipment plant and add more than seven hundred jobs by the end of 1996. Last month, Motorola Inc. rose 4.88 points, or 7.70%, to close at $73.88. ■

REALIZABLE FANTASIES • BY JIM WARREN

Metropolitan Region Networking—Toll Free!

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And offering massive opportunity for technical and entrepreneurial innovation.

Maybe!

There is now a petition before the Federal Communications Commission (FCC) that proposes to permit exactly that to develop.

It's like "permitting" people to use the ocean without having to pay some government-facilitated transportation cartel for the right to do so.

> It's like "permitting" people to use the ocean without having to pay some government-facilitated transportation cartel for the right to do so.

This petition would allocate a chunk of broadcast spectrum—a range of broadcast communications frequencies—for free public use under minimum rules designed only to assure fair access and efficient use.

(As a separate battle, maybe we can even grovel and plead at the feet of our government royalty and get them to permit us to scramble [encrypt] our private wireless communications so they would be, in fact, private—unlike almost all other wireless communications including most cellular calls. However, the IRS, DEA, ATF, FBI, NSA, CIA, British Intelligence, Israeli Intelligence, French Security forces, all industrial espionage agents—and some of the nation's most powerful political incumbents [anyone remember Watergate?]—vehemently oppose uncrackable communications privacy for mere citizens.)

The petition has brought this old realizable fantasy of free wireless datacomm one step closer to reality. Just think of it:

The FCC might actually permit unlicensed—perhaps even uncensored—citizens and businesses to share a tiny segment of the huge broadcast spectrum that they so vigorously peddle to the highest bidder and license to frequency monopolists for the license-holder's exclusive, unilateral benefit (e.g. "info-mercials" and ratings-driven demolition of quality competition).

FCC Petition RM-8653

This petition requests a range of communications frequencies for public use as a wireless component of the much-hyped National Information Infrastructure (NII). Although it was originated by Apple's wireless guru, Jim Lovette, it has *nothing* in it for Apple except what everyone gets—free wireless communication channels.

In particular, it proposes that the Commission allocate the 5.15–5.30 GHz band—which the telecomm cartels in Europe have suppressed to only puny-range wireless local area networks, called "HiperLAN"—and the 5.725–5.875 GHz band, which is currently restricted to industrial, scientific and medical ("ISM") devices and licensed amateur radio operators (some of whom provide very valuable volunteer emergency services during disasters, but whom the petitioners' proponent say could share the band—as they now do with the ISM users).

The FCC might deign to allow the public to use this wee part of the usable spectrum—this communications "ocean"—creating a small electronic public park and free information roadways in between those owned by the conduit cartels.

All this scares the hell out of the Baby Bells, the cellular duets that cozily monopolize each region, the high-priced FCC-blessed radio services, the radio and TV broadcast monopolies, and the cable operators and their exclusive, abusive franchises granted by extortionist local governments.

Thus, this will happen only if massive, vocal, vehement, insistent public demands can bulldoze past Washingtoontown's adroit, megabucks-laden, vote-buying Beltway bandits who work night and day to void the public interest in favor of ever-expanding benefits for

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Exabyte	
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Fantasies *continued...*

government-licensed and government-facilitated telecommunications cartels.

(Don't blame the corporations. They're doing exactly what corporations exist to do—make every penny they can for their stockholders and executives, by every legal means possible. If government representatives help corporations to screw the public, then it is exclusively our "representatives" who are to blame.)

Schools, Libraries, Others

Some of the foremost beneficiaries of such shared public communications channels would be public institutions including local government—all of which must usually pay hefty by-the-minute "business" rates for most of their local voice and data communications.

Civic-nets. Community networking could also be greatly facilitated. E.g., put up an 18" antenna; aim it at a community hub; plug in a cheap transceiver implementing FCC-specified protocols that assure fair sharing, and you're connected. Full-time. Toll-free. Without needing a second phone line. *If* the FCC permits it.

> **The FCC might actually permit unlicensed—perhaps even uncensored—citizens and businesses to share a tiny segment of the huge broadcast spectrum that they so vigorously peddle to the highest bidder and license to frequency monopolists for the license-holder's exclusive, unilateral benefit (e.g. "info-mercials" and ratings-driven demolition of quality competition).**

Physically impaired. There are already a variety of proposals for how such shared communications frequencies might benefit folks with various handicaps. *If* the government would allow fee-free use.

Business benefits. Even many of those vile, disgusting—tax-paying, job-producing—businesses could find endless benefit from sharing such public spectrum, just as many benefit from shared use of the oceans and rivers, and sharing the very *high*-cost public streets and highways.

All could benefit—except, of course, the current communications cartels, which would then *really* have to compete in metro-region, "local loop" communications.

The Cartels' Alternative

Lest such a good idea move forward in the FCC, the established telecomm giants—under the name of WINforum and pretending that they are even representing the computer industry, which they aren't—have introduced a competing petition (RM-8648) pleading that much of the same spectrum (5.1 to 5.32GHz) be allocated for a wimp-powered, "Shared Unlicensed Personal Radio Network," good enough for in-office LANs but useless for community-wide communications.

The period for initial public comment closed July 10th (you didn't think

continued on page 352

Letters

Internet Censorship: Just Say No

I just had to respond to somebody after reading Mr. Warren's article ["With A Congress Like This, Who Needs An Ayatollah?", Issue #139).. I am so glad that someone else feels about this issue like I do.

I do not understand why Congress is so worried about this issue when there are so many real pressing problems they should be dealing with. If the country is going down the tubes because of "obscene" material flying down the superhighway, then we are already too far gone to be saved.

More to the point, Mr. Warren is correct in saying that controlling electronic communications is, in effect, taking away the last medium in which common people can have uncensored mass communication. The 1st Amendment does not state that we need permission from 535 bought and sold "representatives" in order to speak our minds.

The Republicrats came to power saying they were going to remove the burden of the government from our backs. They did not tell us they were going to place it on our fingertips.

Gerald Winston
Alameda
via Internet

Is The Third Wave A Mirage?

First, it was Marshall McLuhan with his The Medium Is The Massage where he put too much emphasis on the medium and didn't take into full account the content; and now Alvin and Heidi Toffler with their Future Shock and their First, Second and Third Wave stuff, are again looking at the externals (technology), while not taking into full account the content.

The Tofflers define "future shock" as both "inability to deal with change" and "information overload," which may have nothing to do with change. This can be confusing at times.

For example, the problem with Congress is that, in their effort to micromanage the economy, the members of Congress must deal with so much information that they are simply overwhelmed. The problem here is not change but sheer volume of data. That is why they depend on their staffs. This is one good argument for limiting the federal government, not future shock.

If we define Tofflers' "Waves" by their content, we find that "First Wave" refers to family farming and crafts, "Second Wave" to mass production, and "Third Wave" to information storage and transfer. All three "waves" were already present in bronze-age Egypt using the technology available at the time. So, why is it surprising that "Third Wave" products can come from present "First Wave" societies, as long as the technology is available? Much of software production, even in the U.S., is by craftsmen, the same as First Wave production. That's one reason that "First Wave" economies often have no trouble producing "Third Wave" products through the aid of technology transfer.

Since when should economics textbooks be changed? Knowledge has always been a factor in production—as a subset of labor. The factors of production remain: land, labor, and capital.

In closing, while Alvin and Heidi Toffler and futurists like them may not always be correct, they are correct often enough so that an interview with them exercises the gray matter. Thanks for the thought-provoking article.

Karl W. Randolph
via Internet

Advice For Multimedia Game Creators

Just about every multimedia release I've seen in the stores in the last six months has gotten it all wrong. Multimedia game designers have made some dangerous assumptions about the buying public. These misconceptions must be corrected or PC-based multimedia entertainment will go the path of 8-track tapes and quadriphonic sound systems.

Here it all is in a nutshell: Write better stories. Hire experienced scriptwriters. It's worth the expense. Despite all the talk of "Illiterate America," people still love a well-turned phrase. The most exciting elements game creators can bring to the medium are believable characterizations. Populate your stories with fleshed-out, well thought-out people who interact with palpable spark, not bad sit-com dribble. Make us care about the people you invent. Forget the state-of-the-art multimedia glitz, the "Quick-Time Videos," "Real Hollywood Actors Digitized onto Computer Scenery."

People will respond to a good story, a good adventure tale with some depth, humor, and a little bit of literary worth. There are good writers available to you, but you're not hiring them. You're spending your whole budget on special effects, not on special moments. Sadly, so many games today are a triumph of technology but a failure of imagination.

Game creators are still writing plot lines to accommodate a "present in inventory\not present in inventory" kind of programing. For example, "Go find the Golden Crest. When you return to me with the object, I will give you . . . ." Enough is enough. All the new games regurgitate this programming device in the same unimaginative way, and do very little to disguise the simplicity of the game's basic engine.

Most of the game puzzles do not contribute the the storyline's larger framework but are a Long March to bring together a set of unrelated objects. A search for missing objects on a computer screen does not constitute a good time no matter how many Hollywood actors you've hired to do the on-screen searching, puzzling, or shooting.

First and foremost, your game must have something interesting to say. It's not necessary to bring to a game "all new ideas," but at least struggle to bring an intelligent twist to old ideas. A good game should play well and get everybody excited even at its simple, formative stages, just as a good song will sound promising on a mere acoustic guitar or piano. If the game doesn't have a spark until you've hired Ms. Playboy to be the lead character, then you don't have a promising product.

There are a few well-written new computer games. Full Throttle, for example. After my kids were done playing that game, they talked about the characters, how the "President of Corley Motors" really cared about the biz but was undermined by heartless cronies. The way that contrast in personalities was played out on the screen was memorable, funny, and clever. It was also done with cartoons, probably on 1/3 the budget of The Daedalus Encounter.

After my kids played Under A Killing Moon, they walked around aping Tex Murphy's lines for days, because he was a genuinely funny character. This makes the game stick in their minds long after the other usual computer-game heroes and villains have been wiped off the hard drive forever.

> "A SEARCH FOR MISSING OBJECTS ON A COMPUTER SCREEN DOES NOT CONSTITUTE A GOOD TIME NO MATTER HOW MANY HOLLYWOOD ACTORS YOU'VE HIRED TO DO THE ON-SCREEN SEARCHING, PUZZLING, OR SHOOTING."

So . . . when it's time to start your next project, go ahead: Spring for a real writer.

Winston Steward
via AOL

Mr. Steward is the author of Every Family's Guide to Computers, published by Ziff-Davis Press.

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○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

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CASE TYPE: ○ Mid Tower
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POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
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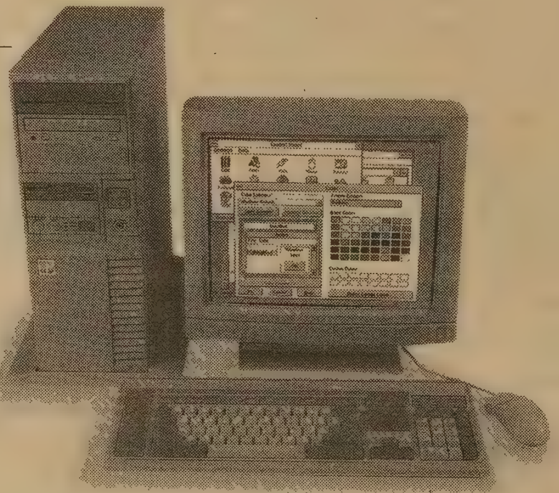

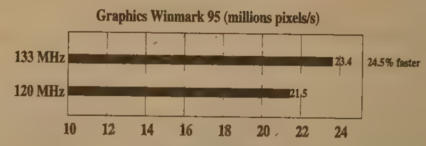

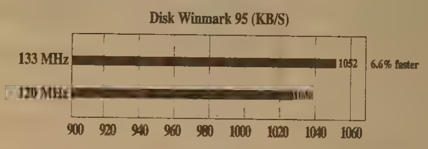

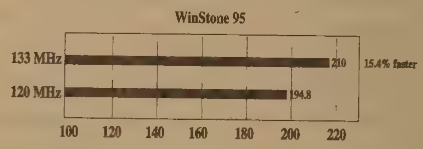

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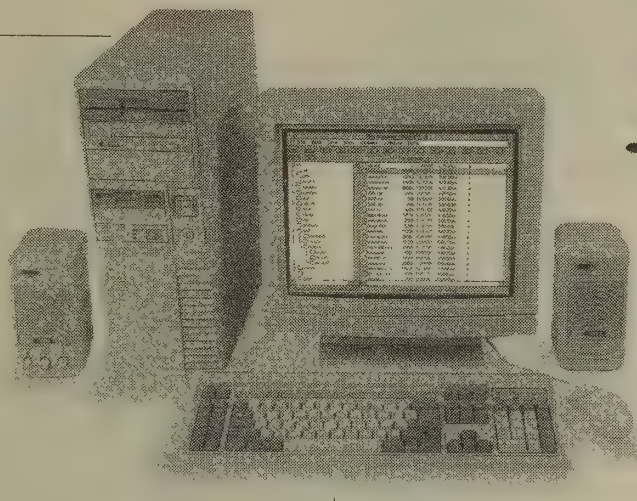

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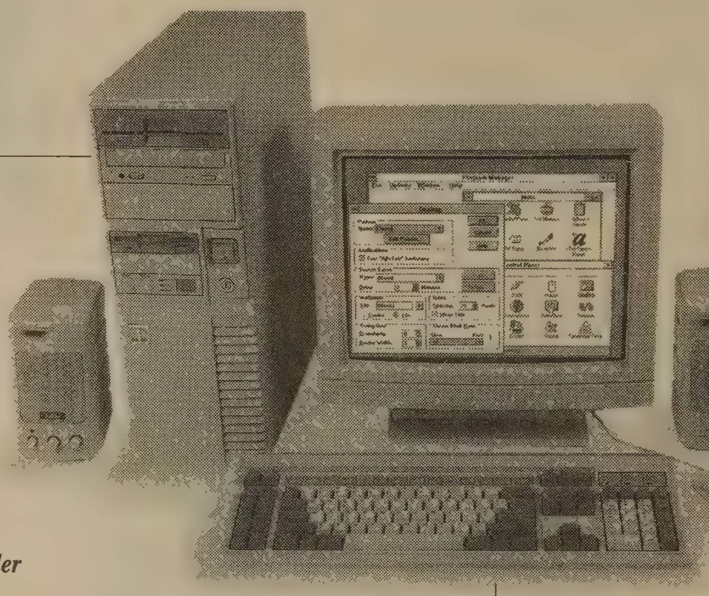

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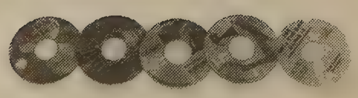

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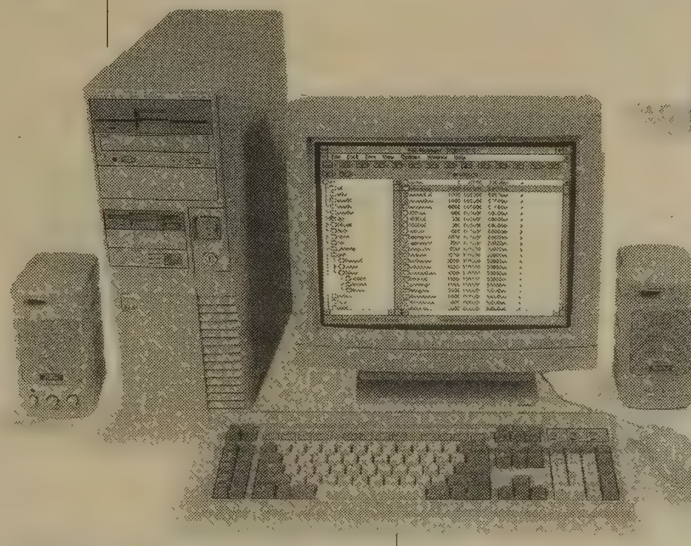

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- *14" Non-interlaced Monitor*
- *Diamond Stealth SE PCI Video Card W/1MB*
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DX4-100MHZ	***$1219***

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FLOPPY	1.2 / 1.44 / COMBO		
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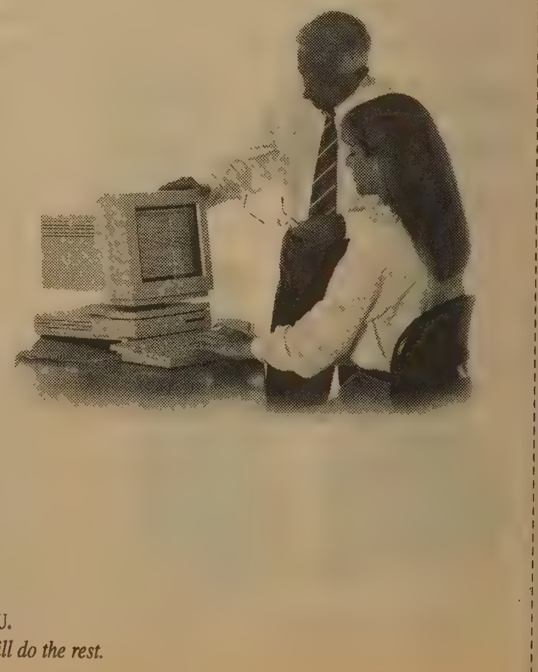
MOUSE	MS / LOG / GENERIC SERIAL / BUS / TRACKBALL		
NETWORK	ISA / EISA / BLV / PCI / MAKE / MODEL____________________		
SOFTWARE	MS WINDOWS 3.11 / WINDOWS 95 / IBM OS/2 WARP / DOS / OTHER		
OPTIONS	____		



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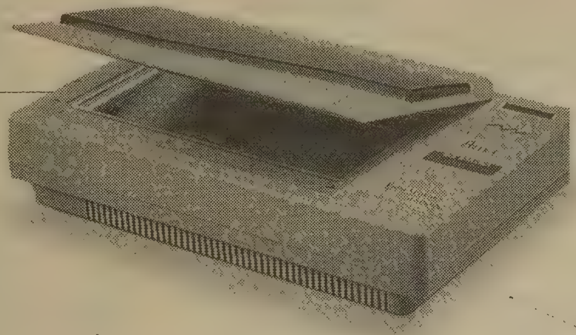

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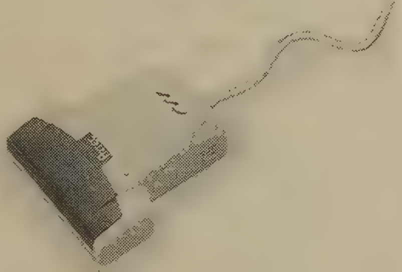

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A Printer For Your Pocket

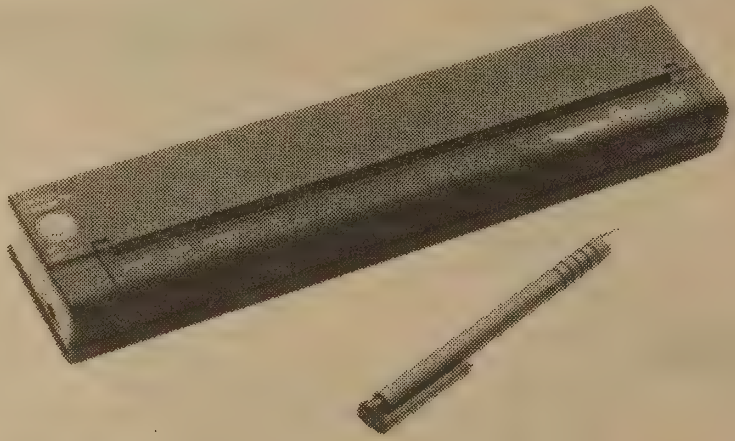
The Pentax PocketJet Makes Traveling With A Printer Easier

The new Pentax PocketJet offers laser quality in a printer so small that you can take it anywhere you take your portable computer. It is roughly the size of the NiCd batteries your portable computer required only a few years ago. This printer measures 10" x 2" x 1" and weighs just over 1lb., including its rechargeable NiCd battery.

While on-the-go computing often requires access to a printer, many of us decided that it was simply not practical to carry one along in our travels. We would either connect to someone eles's printer or wait until we got home to print out the documents. But there are those times when you really do need to print a hardcopy of a document on the spot. Many salespeople, for instance, carry small printers to print a contract. Pentax's new PocketJet printer fills this gap. It is so small that it can fit into a briefcase or computer carrying case. And while it comes with a power supply that can either power the printer or recharge the battery, for many trips, you can easily get by with just the printer, its battery pack, and the special thermal paper it requires.

I have not been a big fan of battery packs for printers because you seldom need to print in the middle of the airport, but with this printer, having a battery pack makes good sense. If for no other reason than that you will be able to eliminate having to cart around a power supply. The battery pack is small and powerful enough to print over thirty pages of text. All you will need to carry is the printer and the supplied cable that connects to a parallel port on your computer and the miniature plug on the printer.

The battery recharges in seventy minutes. This means that someone in the field can easily recharge upon return to a room and be back in business before the next day. There is also the option of buying an additional battery pack ($37.99). The printer comes with a nicely fitted vinyl carrying case that has a small compartment for an additional battery. The packs weigh mere ounces and are about the width of a couple of pencils stuck together. An additional pack does not significantly increase either the weight or size of the carrying case.



Many of the small printers I have examined were so slow that it was a chore to print on them. They were useful only for occasional printing. While I suspect that screenwriters will not want to print out on this model either, it does have an output of three pages per minute. Its drawback is that there is no cut sheet feeder, so you have to load each sheet separately. For occasional forms or letters, it works perfectly.

Small printers always have tradeoffs. In this case, the price you pay is that the PocketJet uses a special thermal paper ($7.99 per one hundred sheets). I found

> Small printers always have tradeoffs. In this case, the price you pay is that the PocketJet uses a special thermal paper.

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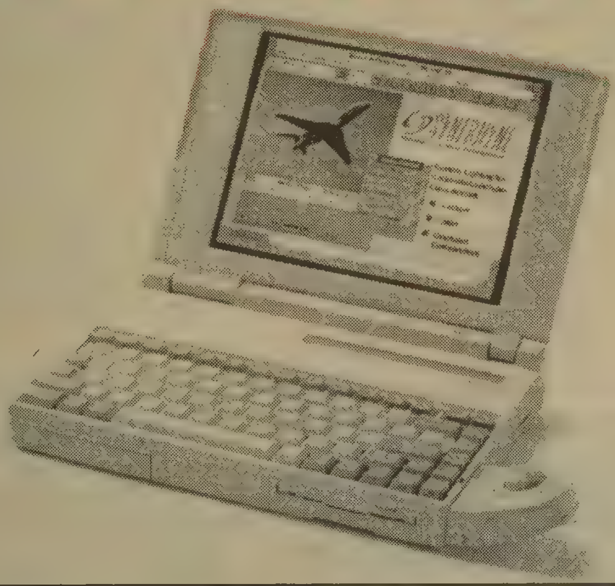

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T2400	Yes	Yes	Yes	Yes		Yes	Yes	Yes
T3400	Yes	Yes	Yes	Yes			Yes	
T3600	Yes	Yes	Yes	Yes		Yes		
T4400					Yes	Yes		Yes
T4500					Yes	Yes		Yes
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Laptops *continued...*

this paper to be marginally acceptable. While it is not a beautiful bond paper, neither is it the kind of thermal paper that old fax machines spew out. This paper remains flat and is not heavily coated. The printed output is beautiful, with a resolution of 300 x 300 dpi. The cost of nearly 8¢ compares favorably with other portable printers that generally weigh more and utilize some kind of ribbon or ink cartridge that ends up costing more per page than this system.

When Pentax originally introduced this printer, it was designed to print letter-size paper only. Many markets, such as real estate and accounting, required legal-size paper. This new version will print on either letter- or legal-size paper ($9.99 per one hundred sheets). If this is not imprtant to you, the original version is still available.

Pentax has designed this printer to work with a LaserJet II printer driver, which makes it easy to set up your portable, running Windows, to print on this unit. If you work in MS-DOS, a disk is included that has the drivers you will need. All in all, the PockeJet package is well designed and carefully thought out.

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PENTAX

Pentax also has a great warranty. If anything goes wrong, simply call the company and give them your credit card number. The next day, you will have a replacement unit. It is your responsibility to return the defective unit within thirty days. After they receive the unit, they tear up your credit card information. If you fail to return the old unit, you are charged for the replacement after thirty days. This warranty is in effect for a year, but for an extra $49 you can extend it for an additional two years. You must extend within the first year if you want to take advantage of this option.

I now plan to travel with a printer. It takes so little space that it makes no sense to travel without it. For larger jobs, I will still have to connect to my friends' systems, but for the occasional letter, this will work just fine. ■

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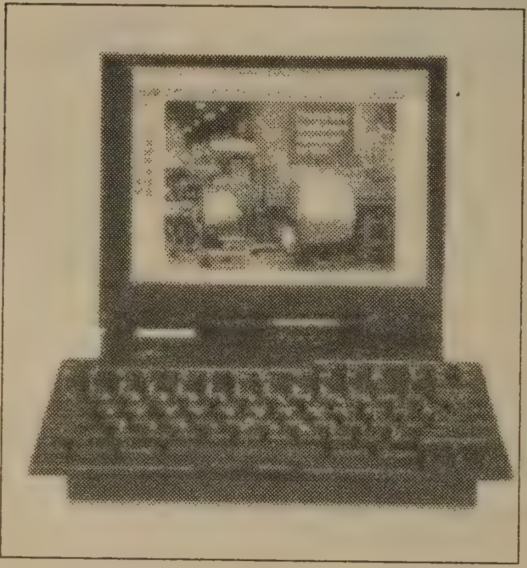
Computer Of The Month:

IBM's ThinkPad 701



From time to time, a truly revolutionary portable comes to market. This time, IBM climbs to the top of the heap with its newest entry that does what was only a dream in the not too distant past. It used to be that the practical size of a portable was limited by the size of the keyboard and the size of the display. Thus, the ultrasmall units were simply not practical for getting real work done—at least for someone who relies on a keyboard for word processing. But IBM has just broken the size barrier with the ThinkPad 701.

Only slightly larger than most subcompacts, the ThinkPad 701 offers a full-size keyboard and a beautiful 10.4" color display—as large as any on the market. IBM accomplished this by a clever keyboard design that splits the keyboard invisibly when it is fully extended. When you close the

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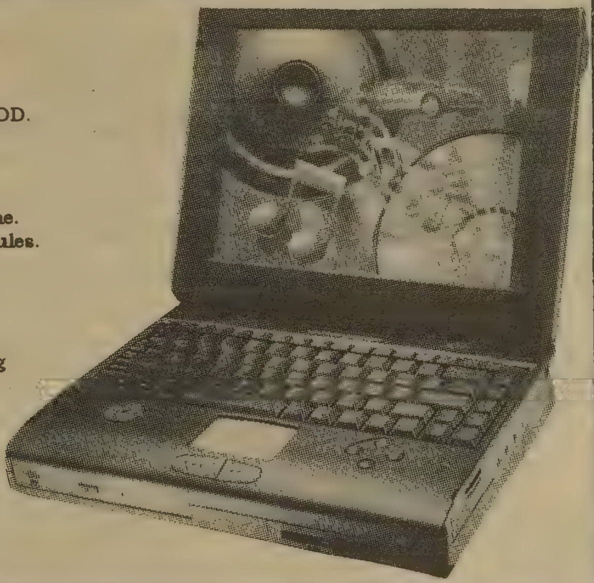

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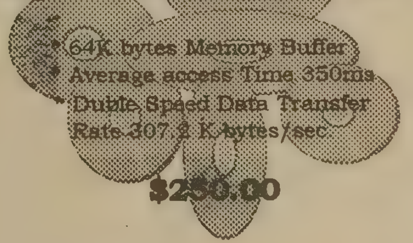

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Laptops *continued...*

close the cover of this portable, the two halves of the keyboard pivot to fit into a smaller space for storage.

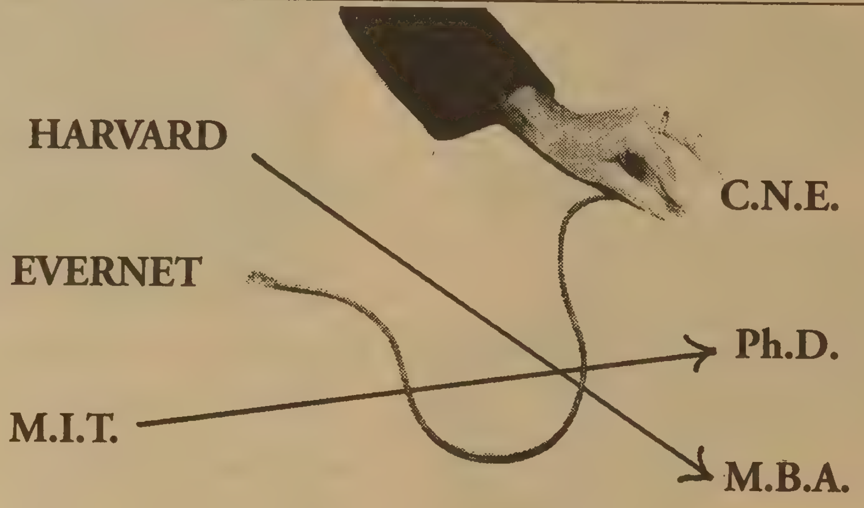
This may sound impossible, but seeing is believing, and, this represents a real breakthrough. Finally there is a small computer—4.5lbs., measuring 9.7" x 7.9" x 1.7"—that actually has a full-size keyboard and full-size display. But this is only the beginning. This is a powerful portable filled with many hardware and software features. The basic machine is powered by an Intel 486 CPU, available in either 50MHz or 75MHz configurations. It comes standard with 8MB of RAM, expandable to 24MB.

Hard drives are available in sizes ranging from 360MB all the way up to 720MB and are removable. Having a removable hard drive serves a number of functions. At the very least, you can insure security by removing it. Users with more than one ThinkPad 701 can more easily carry their work back and forth, and finally, the hard drives are easily swapped for additional storage and upgrade. The basic system also comes with an external floppy drive, which means you can travel without a floopy drive. I like this because it cuts down on the size and weight of the portable you carry around.

The ThinkPad 701 runs on either AC current or a nickel metal hydride battery pack. Depending upon your setup and usage, the battery will last between two and seven hours. Recharge time is roughly one hour. Nickel metal hydride batteries do not have the problem of the older NiCd batteries that needed to be fully discharged before recharging in order not to wear out the battery . IBM boasts that its new circuitry actually makes it preferable not to fully discharge the battery before recharging. It is not clear if this is simply the characteristic of the newer batteries or whether IBM has a new innovation. In either case, it makes running a portable on batteries a good deal more convenient than previously.

The back of the portable contains a single connector that allows you to attach a Multiport II strip containing all of the standard ports: serial, parallel, video, external keyboard, mouse/numeric keypad, and audio in and out. This strip, which fits nicely across the back of the unit, can be carried or left aside. There is a second parallel connector on the side of the unit that can be used when you do not have the Multiport II along. When you use the side connector, which also is the connection for the floppy drive, you must use a supplied cable that converts from a mini plug into a standard parallel port.

This design is excellent. When you are on the road, you can leave the Multiport II strip behind and still have access to a printer. A separate mouse is not necessary because IBM includes the latest advancement in its TrackPoint technology. This button, which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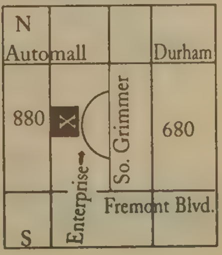

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looks like an eraser head, sits in the keyboard below the G and H keys and moves the cursor smoothly in whichever direction you exert pressure. While I have always liked the TrackPoint, this newest incarnation is a significant improvement over the original version.

IBM has included an infrared device that allows you to send data to other similarly equipped devices. This option is becoming increasingly popular and is extremely useful for working with printers. PCMCIA slots offer another input/output option.

Only slightly larger than most sub-compacts, the ThinkPad 701 offers a full-size keyboard and a beautiful 10.4" color display.

PCMCIA slots are in addition to the built-in data, fax, voice modem. IBM has gone out of its way to maximize the telephone-computer connection. The ThinkPad 701 is designed to integrate telephone functions. It can serve as an answering machine and a speaker phone.

This is one of those portables that comes with so much preinstalled software that I can only hint at what is there. In addition to MS-DOS and Windows, however, you will find OS/2 Warp. Additionally, there is an array of application software. While the ThinkPad 701 is far from an entry-level computer, if you are interested in a state-of-the-art system, don't overlook Big Blue. ■

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$289.99

Part#71260AT

MAXTOR EIDE

Part#	Size	MS	Your Price
7540AV	540 MB	12	$169.99
7850AV	850 MB	12	$209.99
71260AT	1.2 GB	11	$289.99

WESTERN DIGITAL

1.2 GB IDE

- 3.5"LP
- 11 ms
- 3 Years Warranty

SPECIAL PRICE

$319.99

Part# WD31200

WESTERN DIGITAL IDE

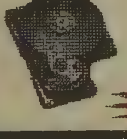
Part#	Size	MS	Your Price
WD2540	540 MB	11	$179.99
WD2850	850 MB	10	$199.99

IBM

1 GB IDE

- "Spit fire"
- 3.5"LP
- 8.5 ms
- 3 Years Warranty

LIMITED SUPPLY



$329.99

IBM SCSI

Part#	Size	MS	Your Price
IBM	1.0 GB	11	$419.99

CONNER

1.2GB IDE

- 3.5"LP
- 9.5 ms
- 2 Years Warranty

LIMITED SUPPLY

Part# CFS1275

$259.99

CONNER IDE

Part#	Size	MS	Your Price
CFS425	425 MB	14	$144.99
CFS1275	1.2 GB	12	$259.99

CONNER SCSI

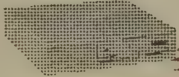
Part#	Size	MS	Your Price
CFP1080S	1.0 GB	11	$429.99
CFP2105	2.1 GB	9.5	$799.99

REMOVABLE STORAGES

SyQuest

External 200 MB Drive

- 200 MB Cartridge
- Cables & Software (for MAC®)
- PC Software Included w/Controller purchase

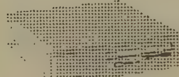


$479.99 GOOD BUY

External SCSI 270 MB Drive

- 13.5ms seek time
- 270 MB
- Cables & Software (for MAC®)
- 18MS
- PC Software Included w/Controller purchase

COOL DEAL



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MASS STORAGE BACK-UP

Colorado T-1000

- Travan mechanism
- 800 MB back-up
- Cables and software included

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TotalAdvantage™ VL

- AVA-2825VL to Fast SCSI & VL to EIDE
- Up to 2 standard or enchanced IDE devices
- Up to 2 standard and 1 floppy tape drive

HOT BUY

$154.99

SCSI CONTROLLERS

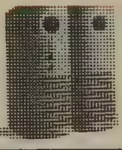
Part#	Description	Your Price
AHA-1460	Slim SCSI PCMCIA SCSI card	[illegible]
1522	16-bit 7 HD/2 FD kit	[illegible]
2825VL	Total Advantage VL	$154.99
AHA-2940	PCI SCSI Master RISC-BASED I/O	[illegible]
MiniSCSI	MiniSCSI™ EPP Adapter	[illegible]

YAMAHA POWERED SPEAKERS

YST-M5

- 3 watts per channel
- Video shielded
- Active Servo technology deliver life-like sound
- 90Hz-20KHz + 3dB
- Included AC Adapter

COMPARE & SAVE



$34.99

YAMAHA SPEAKERS

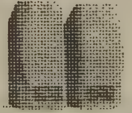
Part#	Description	Your Price
YST-M10	10 Watt per channel	[illegible]

YAMAHA SUBWOOFER

YST-MSW10

- 25 watts
- Video shielded
- Auto On/Off switching
- Active Servo technology deliver life-like sound
- 35Hz-250KHz + 10dB

COMPARE & SAVE



$149.99

COMPUTER INPUT DEVICES

Part#	Description	Your Price
KEYTRONICS	2000	[illegible]
KEYTRONICS	2001	[illegible]
MICROSPEED	Deluxe 101	[illegible]
MICROSPEED	Trackball	[illegible]
MICROSPEED	Keyboard(Mac®)	[illegible]

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Parallel Link	$54.99

SONY

SONY Magic Link

Personal Communicator
Magiclink™ utilizes MagicCap operatingplatform and Telescript™ technology. Egonomic design for comfort, send messages via fax, pager virtual QWERTY style keyboard

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HP 200LX
- One-touch access
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1MEG HP 200LX	$499.99
2MEG HP 200LX	$649.99

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Organize your business and personal information. Share and synchronize information with Windows™ and Apple® Macintosh® computer
- E-mail and paging
- Expand capabilities

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Newton MessagePad

Rechargeable Battery Pack Extra nickel-cadmium battery pack for use with Apple® Newton® MessagePad™ 110	$29.99
4 MB Flash Storage Card Increases the storage capacity of your Apple® Newton® MessagePad™	$239.99
Apple® Newton® Messagepad™ Connection Kit for Window™	$99.99
Apple® Newton® Messagepad™ Charging Station	$99.99

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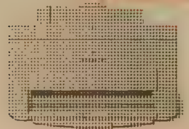


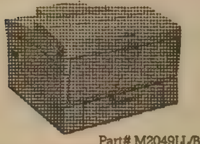
Part# M2888LL/B

Apple® Color StyleWriter® 2400
- 3 - 4PPM
- 360x360 dpi
- TrueType® fonts
- High speed serial

$379.99

Authorized Reseller

Part#	Description	Resolution	PPM	Your Price
Apple® StyleWriter® Printers				
M3474LL/A	Apple® Color StyleWriter® 2200	360x360	3-4	$379.99
M2888LL/B	Apple® Color StyleWriter® 2400	360x360	4	$379.99
M1936LL/A	Apple® Color StyleWriter® Pro	360x360	4	$599.99



Part# M2049LL/B

Apple® LaserWriter Select® 360
- 10PPM
- 600x600 dpi
- TrueType® fonts
- PostScript™
- Fax Option

$1499.99

Part#	Description	Resolution	PPM	Your Price
Apple® LaserWriter® Printers				
M1675LL/A	Apple® Personal LaserWriter® 300	300x300	3-4	$549.99
M3178LL/A	Apple® Personal LaserWriter® 320	300x300	4	$789.99
M3898LL/A	Apple® LaserWriter® 4/600 PS	600x600	4	$849.99
M2471LL/A	Apple® LaserWriter® 16/600 PS	600x600	16-17	$2295.99
M3675LL/A	Apple® Color LaserWriter® 12/600 PS	600x600	3-12	$CALL

MONITORS

THE MONITOR SOURCE

ON DEMO

$479.99

ON DEMO

$849.99

DIGITAL MULTISCAN® TECHNOLOGY

Part#	Description	Max Resolution	Your Price
Apple® Monitors			
M2348LL/A	Apple® Color Plus 14"	800x600(PC)/800x600(MAC)	$299.99
M3089LL/A	Apple® Multiple Scan 15"	1024x768(PC)/832x1024(MAC)	$479.99
M2611LL/A	Apple® Multiple Scan 17"	1280x1024(PC)/1024x768(MAC)	$929.99
M2613LL/A	Apple® Multiple Scan 20"	1280x1024(PC)/1280x1024(MAC)	$1899.99

Part#	Description	Max Resolution	Your Price
SONY Monitors			
CPD-1425	SONY MultiScan 1425	1024x768(PC)/832x624(MAC)	$299.99
CPD-15SF1	SONY MultiScan 15SF	1280x1024(PC)/1024x768(MAC)	$469.99
CPD-17SF1	SONY MultiScan 17SF	1280x1024(PC)/1024x768(MAC)	$819.99
GDM-20SE1	SONY MultiScan 20SE	1280x1024(PC)/1280x1024(MAC)	$1899.99

Part#	Description	Max Resolution	Your Price
NEC Monitors			
JC-1538VMA	NEC MultiSync XV15"	1280x1024(PC)/1024x768(MAC)	$429.99
JC-1734VMA	NEC MultiSync XV17"	1024x768(PC)/1024x768(MAC)	$769.99
JC-1733VMA	NEC MultiSync XE17"	1024x768(PC)/1024x768(MAC)	$889.99
JC-2131VMA	NEC MultiSync XE21"	1024x768(PC)/1152x870(MAC)	$1979.99

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FREE

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- Caddyless
- SCSI-II Fast Quad-Speed CD-ROM
- 150ms access
- 600kb/sec transfer
- 256 cache

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TEAC SuperQuad Speed Internal Drive

- 600kb/sec transfer rate
- 195ms access time
- Installation kit

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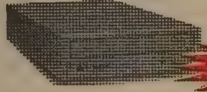
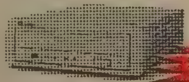


$219.99

PLEXTOR Plextor 4x CD

- 600 K transfer
- 190ms access
- 1 MB cache

LIMITED STOCK



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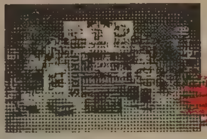
CREATIVE Discovery CD16 4X

- 4xCD
- Software bundle
- Soundblaster card

COMPARE & SAVE



$319.99

CREATIVE LABS

Description	Your Price
SoundBlaster 32IDE	$149.99
SoundBlaster Pro Value	$69.99
SoundBlaster Value	$49.99
SoundBlaster AWE 32	$259.99
VideoBlaster RT 300	$319.99
VideoBlaster MP400	$269.99

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Hayes Accura 28.8 V.34 Fast

- External
- 28.8 Data/14.4 fax

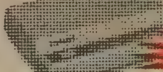
$229.99

HAYES

Description	Type	Your Price
Accura 14.4 V.42 Fast	Internal	$89.99
Accura 14.4 V.42 Fast	External	$105.99
Accura 28.8 V.34 Fast	Internal	$179.99
Accura 28.8 V.34 Fast	External	$229.99

USRobotics Courier 28.8 V.34

- External
- 28.8 Data/14.4 fax



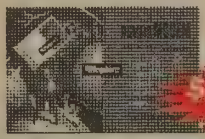
$329.99

US ROBOTICS

Description	Type	Your Price
14.4 Sportster Si 14.4	Internal	$69.99
14.4 Sportster Si 14.4	External	$89.99
Sportster 14.4 V32/V42	Internal	$99.99
Sportster 14.4 V32/V42	External	$105.99
Courier 28.8 V.34	Internal	$299.99
Courier 28.8 V.34	External	$329.99
Sportster 14.4 PCMCIA	Internal	$169.99
Sportster 28.8 PCMCIA	Internal	$329.99
Mac® & Fax 14.4 bps External Modem for Mac®		$119.99
Mac® & Fax 28.8 V.34 External Modem for Mac®		$249.99

Megahertz 14.4/14.4 PCMCIA X-Jack Fax Modem

- V.42/V.42 bis
- Retractable RJ 11 connector



$179.99 GREAT PRICE

28.8 PCMCIA Fax Modem $299.99

COMPUTOWN COMPONENTS

Mitac 14" Monitor

- 1024x768
- .28 mm DP
- Non-Interlace
- One year Warranty

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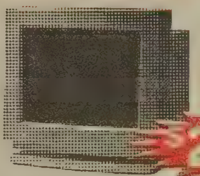

$209.99

IDE CONTROLLER

Model	Description	Your Price
Data Technologies		
DTC 2280	ISA IDE	$19.99
DTC 2278E	VLIDE Controller w/16550ports	$29.99
Promise Technologies		
2300+	VLEIDE	$49.99

VIDEO CARDS

Model	Description	Your Price
Diamond Multimedia		
STEALTH SE	1 MB VLB	$99.99
STEALTH SE	1 MB PCI	$99.99
STEALTH 64	1 MB VLB DRAM	$159.99
STEALTH 64	1 MB PCI DRAM	$159.99
STEALTH 64	2 MB VLB DRAM	$209.99
STEALTH 64	2 MB PCI DRAM	$209.99
Number Nine		
9GXe 64	1 MB VLB	$164.99
9GXe 64	1 MB PCI	$169.99
9GXe 64	2 MB VLB	$229.99
9GXe 64	2 MB PCI	$229.99

NETWORK CARD

Model	Description	Your Price
3Com		
3C589B-TP	PCMCIA 10BT	$149.99
3C589B-Combo	PCMCIA 10BT & 10B2	$189.99

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NEW PCI APPLE® POWER MACINTOSH® ARRIVALS!

Apple® Power Macintosh® 7200/75

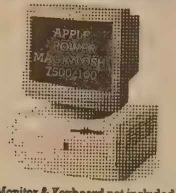
- PowerPC™ 601/75 MHz
- 8 MB RAM expandable to 56 MB
- 500 HD
- Quad Speed CD-ROM Drive
- 1 MB VRAM expandable to 4 MB
- 3 PCI expansion slots
- Built-in 10B-T and AAUI connector
- Stereo Input and Output

Monitor & Keyboard not included
Part# M4303LL/A

CALL FOR BEST PRICE

Part#	Description	RAM HD	PCI Slots	Your Price
7200 SERIES				
M4303LL/A	PowerPC™ 601/75 MHz	8MB/500HD/4XCD	3	*CALL
M4082LL/A	PowerPC™ 601/90 MHz	8MB/500HD/4XCD	3	*CALL

APPLE® POWER MACINTOSH® 7500/100 SERIES



Apple® Power Macintosh® 7500/100

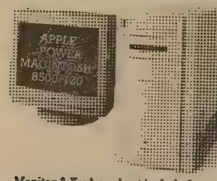
- PowerPC™ 601/100 MHz Upgradeable to 604
- 8 MB RAM expandable to 512 MB
- 500 HD
- Quad Speed CD-ROM Drive
- 2 MB VRAM expandable to 4 MB
- 3 PCI expansion slots
- Built-in 10B-T and AAUI connector
- 24-bit Video input

Monitor & Keyboard not included
Part# M3100LL/A

CALL FOR BEST PRICE

Part#	Description	RAM HD	PCI Slots	Your Price
7500 SERIES				
M3100LL/A	PowerPC™ 601/100 MHz	16MB/500HD/4XCD	3	*CALL
M3102LL/A	PowerPC™ 601/100 MHz	16MB/1 GB/4XCD	3	*CALL

APPLE® POWER MACINTOSH® 8500/120 SERIES



Apple® Power Macintosh® 8500/120

- PowerPC™ 604/120 MHz
- 16 MB RAM expandeable to 512 MB
- 1 GB HD
- 256K level-2 cache
- Quad Speed CD-ROM Drive
- 2 MB VRAM expandeable to 4 MB
- 3 PCI expansion slots
- Built-in 10B-T and AAUI connector
- 24-bit Video input/output

Monitor & Keyboard not included
Part# M3104LL/A

COMPARE & SAVE

Part#	Description	RAM HD	PCI Slots	Your Price
8500 SERIES				
M3104LL/A	PowerPC™ 604/120 MHz	16MB/1 GB/4XCD	3	*CALL
M3105LL/A	PowerPC™ 604/120 MHz	16MB/2 GB/4XCD	3	*CALL

APPLE® POWER MACINTOSH® 9500/120 SERIES

Apple® Power Macintosh® 9500/120

- PowerPC™ 604/120 MHz
- 16 MB RAM expandeable to 512 MB
- 1 GB HD
- 512K level-2 cache
- Quad Speed CD-ROM Drive
- 2 MB VRAM expandeable to 4 MB
- 6 PCI expansion slots
- Built-in 10B-T and AAUI connector

Monitor & Keyboard not included
Part# M3093LL/A

CALL FOR BEST PRICE

Part#	Description	RAM HD	PCI Slots	Your Price
8500 SERIES				
M3093LL/A	PowerPC™ 604/120 MHz	16MB/1 GB/4XCD	6	*CALL
M4423LL/A	PowerPC™ 604/132 MHz	16MB/2 GB/4XCD	6	*CALL

APPLE POWERBOOK 150 SERIES

THE APPLE® POWERBOOK® SOURCE

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Apple® PowerBbook® 150

- 4 MB RAM expandable to 36 MB
- 250 HD
- Grayscale
- ClarisWorks
- Mobility Software

Part# M4088LL/A

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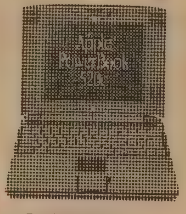
APPLE® POWERBOOK 520c SERIES



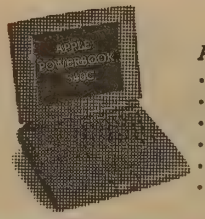
Apple® PowerBook® 520c

- 4 MB RAM expandable to 36 MB
- 240 HD
- 9.5" Dual Scan
- Built-in Ethernet
- Stereo Input and Output
- Built-in Trackpad

Part# M3984LL/A

COMPARE & SAVE

APPLE® POWERBOOK® 540c SERIES



Apple® PowerBook® 540c

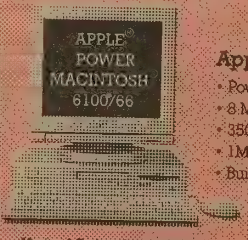
- 4 MB RAM expandable to 36 MB
- 320 HD
- 9.5" Active Color
- Built-in Ethernet
- Stereo Input and Output
- Built-in Trackpad

Part# M2809LL/B

UNBEATABLE PRICE

[illegible]

NEW REDUCED PRICES



Apple® Power Macintosh® 6100/66

- PowerPC™ 601/66 MHz
- 8 MB RAM expandeable to 72 MB
- 350 MB HD
- 1MB VRAM expandeable to 4 MB
- Built-in ethernet

Monitor & Keyboard not included
Part# M3631LL/A

$1399.99

[illegible]

Part#	Description	RAM HD	Your Price
8100/100			
M3635LL/A	PowerPC™ 601/100 MHz	8MB/700 HD	*CALL*
6100/66			
M3994LL/A	PowerPC™ 601/66 MHz	8MB/350 HD/2XCD/AV	*CALL*

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IN STOCK

Part# PA1208U-S2A

TOSHIBA T2110CS

- 75 MHz Intel486DX4™ Processor
- 4 MB RAM expandable to 28 MB
- 330 HD
- 1MB VRAM
- 2 PCMCIA slots
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- Built-in Power Supply • AccuPoint Mouse

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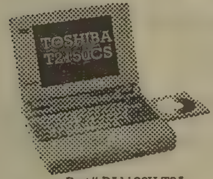
T2130CS				
PA1196U-S2A	75MHz Intel486DX4™	8MB/520HD	10.4" Dual Scan Color	[illegible]
T2130CT				
PA1195U-T2A	75MHz Intel486DX4™	8MB/520HD	10.4" Active Color	[illegible]

SATELLITE PRO SERIES



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400CS				
PA1207U-S2A	Pentium® 75MHz	8MB/520HD/4XCD	10.4" Dual Scan Color	$CALL
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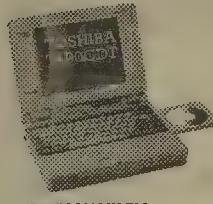

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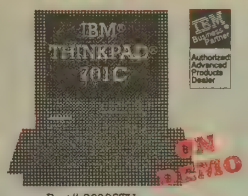

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701C				
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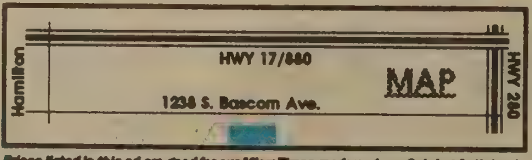

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Telecommuter Security

How To Overcome Telecommuting-Induced Isolation

Isolation is one of the most commonly recognized negative aspects of becoming a telecommuter. So amid continuing reports of isolation bothering newcomers to telecommuting, and rapidly increasing numbers of newcomers, the topic has been bumped to the top of my list.

Telecommuting-Induced Isolation is a feeling of being cut off from friends and colleagues at the office where one has habitually worked. Although telecommuters frequently report a degree of exhilaration at being free of external influences, they nearly always experience at least some period of slight sadness or depression. This is most likely due to the general reduction in stimulation they endure after leaving a relatively populated workplace for a relatively unpopulated one.

People who have spent years, or decades, in a conventional work situation and then switch to a telecommuting schedule often find Telecommuting-Induced Isolation the most difficult part of the change to accept. They find their long-established habits, thoughts, and behaviors simply aren't appropriate to working alone or in a smaller, less supportive environment.

Telecommuters who have successfully overcome their feelings of isolation, generally by replacing their office-oriented work habits with new ones, say the biggest hurdle is just to recognize the source of the problem. The depression and loneliness tend to be far more devastating when you feel they have no specific source. Once you recognize these feelings as a natural response to your markedly changed work-a-day circumstances, they almost always seem far less potent and much more amenable to simple remedies.

Some of the simplest and most effective remedies for Telecommuting-Induced Isolation include making stronger efforts to:

Stay in touch with activities at—and news from—your accustomed office. One good strategy is to ask one or two of your closest colleagues to help you stay aware of office developments. Call them daily and talk for a few minutes specifically about all the office intangibles that aren't covered in the usual memos you receive and project-oriented meetings you attend.

Maintain personal relationships. Portions of all the conversations that take place at the office—the jokes, the "how are you" discussions, the follow-up questions to previous conversations, and more—do a great deal to help people maintain personal relationships among their coworkers. Much of this disappears for newcomers to telecommuting. It's too easy to fall into the trap of focusing all your talk on projects and assignments, to the detriment of your personal relationships. If you can learn to banter and have personal mini-conversations via telephone, fax, and email, you can greatly reduce your feelings of Telecommuting-Induced Isolation.

Many employers of telecommuters haven't even begun to consider their insurance problems or how to solve them.

Speed up the two-way communications surrounding your work. Often, telecommuters miss the immediate feedback and suggestions they normally receive from coworkers when everyone is working at the same location. In contrast, telecommuters often send their memos off through computer or fax systems, then wait until the following morning—or longer—for a reply. It takes a special effort, but telecommuters can and should be specific about asking for faster turnaround times from office-bound colleagues. It's also useful to be more assertive about calling and asking for replies to specific messages. Once everyone gets used to maintaining relatively rapid conversations via email and fax, much of your Telecommuting-Induced Isolation will disappear.

Working At Home Requires Safety, Insurance

Get together fifty different companies in fifty different industries and they'll all have at least one thing in common: a concern for security. They're worried about the safety of their employees. They're interested in protecting their information from prying eyes. They want to prevent their equipment and supplies and services—copying, telephones, and everything else—from being stolen.

No doubt one impediment to more rapid expansion of the "telecommuting corps" is that security is more difficult for employers to obtain at telecommuters' homes than at their centralized offices.

That's why more and more telecommuting agreements name the telecommuter to be responsible for protecting the company's information, hardware, and other assets from theft, fire, and damage. Of course, in practice telecommuters are rarely asked to repay a company for stolen or damaged equipment.

But the clauses at least give company managers a greater feeling of security.

Telecommuters who want to cover themselves against this potential liability should modify their homeowner's or renter's insurance to be sure it includes all the work-related equipment they've taken home from the office. Many such policies explicitly refuse to cover equipment "used for business," so talk things over in detail with a knowledgeable insurance agent who can sell you real protection that will pay off in a pinch.

Coverages you'll want to consider include theft, fire, accident, workers compensation, and liability.

A good place to start is with your employer's insurance experts. They can explain what coverages are automatically extended from the home office to your telecommuting workplace. Don't expect an easy time of it, however, because there are no cut-and-dried answers to questions about insurance for telecommuters. In fact, many employers of telecommuters haven't even begun to consider their insurance problems, or how to solve them.

But that doesn't mean you won't be asked to come up with a hefty sum in the event of a problem, so keep digging for details.

For example, some employers' insurance will extend coverage to situations where people meet at your home during regular business hours to discuss a particular project or business activity. But they may be less clear about insurance coverage when the same meeting takes place in the evening, or on a weekend, or when one of the meeting participants happens to be a friend who comes for lunch before or stays to dinner afterwards.

In certain cases, an employer's insurance policy covering business done at home may create requirements not unlike the IRS, which make it a violation of the rules for you to use your telecommuting workplace for anything but business activities. Having a TV, a refrigerator, or a couch in the same room with your desk may automatically invalidate the coverage you think you're receiving on business-related equipment and activities.

It's worthwhile to investigate your own insurance coverage. Will your present policy cover a fax machine or file cabinet owned by your employer but used in your home to support

Isolation is one of the most commonly recognized negative aspects of becoming a telecommuter.

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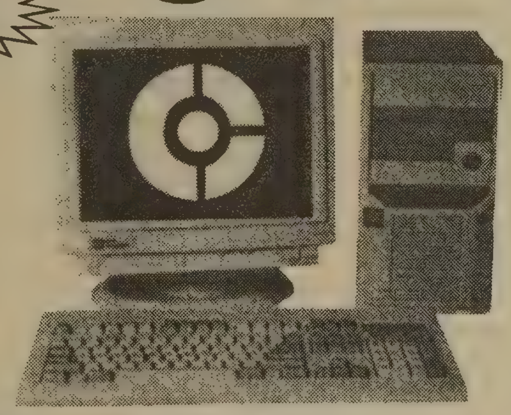

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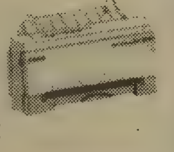

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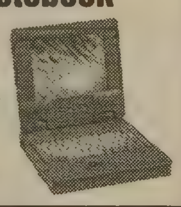

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Telecommuting

continued on page 310...

your telecommuting? What about office equipment? Business information?

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Wherever you get the insurance to cover your telecommuting activities, you'll almost certainly have to pay more than you're paying now. Before you authorize any changes or incur any costs, you might want to discuss with your employer how you will divide up the extra premiums involved.

The most difficult problem is probably the business information stored at your telecommuting workplace: computer files, customer records, confidential data, proprietary secrets, and other forms of business information can be literally priceless. If these are lost or—even worse—copied or stolen by the competition, it doesn't take a great leap of logic to imagine an employer's reaction to the unlucky or unwary telecommuter who should have been more responsible.

One good way to protect yourself a little better is to use all the software password protection available. Many programs—including Microsoft Word and Excel, along with most other major applications—afford enough password protection to prevent family members and casual visitors to your telecommuting workplace from opening your files without your permission.

There are also software systems—like MenuWorks Security from PC Dynamics (Westlake Village, CA)—that make it far more difficult for anyone to gain access to any information on your computer without your explicit directions and help.

Data transmission creates its own security concerns. Many companies use "dial-back" systems and passwords on all network accounts to fight unauthorized access. But wires can always be tapped, and even when you are not the single target, millions of computer network messages—containing passwords and other important information—are subject to being scanned and intercepted by anyone from thoughtless hackers to determined industrial spies.

Countermeasures generally rely on using some form of simplified, user-friendly data encryption for all messages passing to and from telecommuters.

Of course, you can't really protect anything of value from a determined thief. But it may nevertheless prove worthwhile to put a heavy-duty lock on your telecommuting workplace doors

continued on page 310

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Also offer external SCSI-2 drives use centronic-50 pin or mini-50 pin

External Parallel Port Drive (IBM)

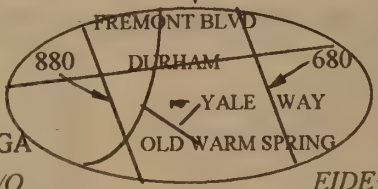
POCKET			DATA TRANSPORTER		
120MB	$198	Supports multiple drive plus printer	340MB	$258	Supports multiple drive plus printer
256MB	$298	Smaller than your hand	520MB	$298	Works under DOS & Windows
520MB	$398	Less than one pound	850MB	$348	Easy to use, no ID or CMOS setup
810MB	$638	Works under DOS & Windows	1.2GB	$438	Build-in 50w UL power supply
		Leather carrying case add $28			Build-in cooling fan

Academic Software (IBM & Mac)

MICROSOFT		ADOBE	
Office Standard for Win95, User	$72	Illustrator 4.0 for Win	$148
Office Pro for Win95, User	$92	Illustrator 5.5 for Mac (D3 & CD)	$148
Office Pro for Win95, Server	$182	PageMaker 5.0 for Win & Mac	$178
Office Pro w/ BS for Win95, Server (CD)	$192	Photoshop 3.0 for Win	$278
Office Standard 4.2 for Win	$132	Photoshop 3.0.1 for Mac (D3 & CD)	$278
Office Pro 4.3 for Win	$168	Premiere 4.0 for Win & Mac (D3 & CD)	$278
Office Standard 4.21 for Mac (D3 or CD)	$132		
Word for Win95, User	$58	**WORD PERFECT**	
Excel for Win95, Server	$102	WordPerfect 6.1 for Win	$98
Excel for Win95, User	$58	Perfect Office 3.0 Pro for Win	$168
Project for Win95, User	$68	WordPerfect 3.1 for Mac	$78

All User software require server and do not have document . 1 software per individual
Academic ID required for academic software purchase . Academic software is not for RESALE

486 DX2/66 MHZ VLB	PENTIUM 75/90/100 MHZ
486DX2/66(Intel cpu)+256K	INTEL 75/90/100 +256K
4MB RAM	8MB RAM
520MB HD	850MB HD
1.44MB FD	1.44MB FD
VLB 1MB SVGA	PC I SVGA
HIGH SPEED I/O	EIDE+HIGH SPEED I/O
TOWER CASE+230W PS	TOWER CASE+230W PS
101 KEYBOARD	101 KEYBOARD
$689	$1249/1349/1499



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1X3--70	1X9--70	1X32--70	2X32--70	4X32--70
$33.00	$35.00	$125.00	$245.00	$438.00

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MULTIMEDIA , HD , MEMORY UPGRADES

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MOTHERBOARD	486SX/33 (BUILD-IN) UP TO 48MB-----80.00
ADD-ON CARD	IDE+HIGH SPEED (16550) I/O------------13.00
	SVGA CARD (S3 ,TRIDENT) 1MB-------53.00

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HARD DRIVES

Seagate

4.3GB FAST SCSI-2

- Model# ST15230N
- 5 YEAR WARRANTY
- 9ms FAST, 5411 RPM.
- 512K Cache Buffer
- 800,000 Hours MTBF

$989

External ... $1035

ENHANCED IDE DRIVES

428MB	ST3491A	14ms	Fast ATA	$146
720MB	ST3780A	12ms	Fast ATA-2	$179
850MB	ST5850A	12ms	Fast ATA-2	$209
1.0GB	ST31220A	12ms	Fast ATA-2	$268

FAST SCSI-2 DRIVES

Hawk Series-(5,411RPM/512K Cache/5 Yr Warranty)

				INT	EXT
1.0GB	ST31230N	9ms	3.5"x1"	$446	$496
2.1GB	ST32430N	9ms	3.5"x1"	$798	$848
4.3GB	ST15230N	9ms	3.5"	$989	$1035

Barracuda Series-(7200RPM/8ms Avg Seek/5Yr Wr)

2.1GB	ST32550N	512KCache	3.5"x1"	$959	$999
4.3GB	ST15150N	1MBCache	3.5"	$1375	$1425

Elite Series-(5,400RPM/1MB Cache/5 Year Warranty)

9.0GB	ST410800N	11ms	5.25"	$2149	$2249

WESTERN DIGITAL

1.6GB Enhanced IDE

- Model# [illegible]
- 3 YEAR WARRANTY
- <10ms FAST,5200RPM.
- 128KCache Buffer
- Up to 16.6MB/s Trans Rate

$485

ENHANCED IDE DRIVES

540MB	AC2540	12ms	3.5"x1"	$166
850MB	AC2850	<10ms	3.5"x1"	$198
1.28GB	AC31200	<10ms	"NEW"	$290
1.6GB	AC31600	<10ms	"NEW"	$485

IBM

1.0GB FAST SCSI-2 DRIVE

- Model# DPES-31080
- 3 YEAR WARRANTY
- 10.5ms FAST, 5400 RPM.
- 512K Cache Buffer
- 500,000 Hours MTBF

$390

External ... $439

FAST ATA-2 IDE DRIVE

1.0GB	DPEA-31080	10.5ms	3.5"x1"	$277

FAST SCSI-2 DRIVES

				INT	EXT
527MB	94G2646	12ms	3.5"x1"	$195	$245
728MB	94G2647	12ms	3.5"x1"	$229	$279
1.0GB	DPES31080	10.5ms	3.5"x1"	$390	$439
2.3GB	94G3192	7.5ms	7200RPM	$999	$1049
4.3GB	94G3196	Ultrastar	7200RPM	$1396	$1447
5.1GB	06H8431	8ms	Audio Video	$1827	$1877
5.3GB	94G3787	7.5ms	"NEW"	$1790	$1840

CONNER

1.27GB FAST ATA-2 DRIVE

- Model# CFS1275A
- 3 YEAR WARRANTY
- 3,600 RPM.
- 64K Cache Buffer
- <15ms Average Seek Time

$232

IDE & ENHANCED IDE DRIVES

FileProSeries-(3600RPM/64K Cache/1-3 Yr Warranty)

420MB	CFS420A	14ms	3.5"x1"	$132
540MB	CFS540A	<15ms	3.5"x1"	$164
850MB	CFS850A	<15ms	3.5"x1"	$185
1.27GB	CFS1275A	<15ms	3.5"x1"	$232

FilePro Advantage Series-(4,500RPM/256K Cache/up to 16.7MB/s Data Transfer Rate/1-3 Yr Warranty)

540MB	CFA540A	12ms	3.5"x1"	$Call
850MB	CFA850A	<12ms	3.5"x1"	$Call
1.27GB	CFA1275A	<12ms	3.5"x1"	$389

FAST SCSI-2 DRIVES

FilePro Series-(5400RPM/512K Cache /5 Year Warranty)

1.0GB	CFP1060S	9ms	3.5"x1"	$369	$419

FilePro Performance Series-(512K Cache/5YrWarr)

1.0GB	CFP1080S	11ms	5400RPM	$385	$435
2.1GB	CFP2105S	8.5ms	5400RPM	$678	$728
2.1GB	CFP2107S	8.5ms	7200RPM	$769	$819
4.2GB	CFP4207S	9ms	7200RPM	$1044	$1094

HARD DRIVES

Quantum

365MB FAST SCSI-2

- Model# [illegible]
- 2 YEAR WARRANTY
- 11ms FAST, 4500 RPM.
- 128K Cache Buffer
- 300,000 Hours MTBF

$93.50

External ... $145

E-IDE & Fast SCSI-2 DRIVES

Maverick Series-(3600RPM/128K Cache/2 Yr Warr)

				INT	EXT
270MB	30270MVA	14ms	IDE	$128	$N/A
540MB	30540MVA	14ms	IDE	$161	$N/A
540MB	30540MVS	14ms	SCSI	$171	$221

Lightning Series-(4500RPM/128K Cache/2 Yr Warr)

365MB	30365LTA	11ms	IDE	$150	$N/A
730MB	30730LTA	11ms	IDE	$183	$N/A
365MB	30365LTS	11ms	SCSI	$93.50	$145
730MB	30730LTS	11ms	SCSI	$220	$270

Fireball Series-(5400RPM/128K Cache/3 Yr Warr)

540MB	30540FBA	12ms	IDE	$165	$NA
1.08GB	31080FBA	12ms	IDE	$237	$NA
540MB	30540FBS	12ms	SCSI	$174	$224
1.08GB	31080FBS	12ms	SCSI	$349	$399

TrailBlazer Series-(4500RPM/128K Cache/3 Yr Warr)

420MB	30420TRA	14ms	IDE	$141	$NA
840MB	30850TRA	14ms	IDE	$190	$NA
420MB	30420TRS	14ms	SCSI	$164	$214
840MB	30850TRS	14ms	SCSI	$233	$283

Empire Series-(5400RPM/512K Cache/5 Yr Warranty)

1.0GB	EMP1080S	9.5ms	3.5"x1"	$525	$575
2.1GB	EMP2100S	9.5ms	3.5"	$672	$722

Capella Series-(5400RPM/512K Cache/5 Yr Warranty)

2.2GB	VP32210S	8.5ms	3.5"x1"	$669	$719

Grand Prix Series-(7200RPM/512K Cache/5 Yr Warr)

4.3GB	XP34301S	8.6ms	3.5"	$962	$1009

Atlas Series-(7200RPM/1MB Cache/5 Yr Warranty)

2.1GB	XP32150S	8ms	3.5"x1"	$808	$858
4.3GB	XP34300S	8ms	3.5"	$1369	$1419

Empire-II Series-(5400RPM/512K Cache/5 Yr Warr)

2.18GB	VP32181S	8.9ms	3.5"x1"	$New	$Call
4.36GB	VP34360S	8.9ms	3.5"x1"	$New	$Call
9.10GB	VP39100S	8.9ms	3.5"	$New	$Call

Atlas-II Series-(7200RPM/up to 1MB Cache/5 Yr Warr)

2.18GB	XP32181S	7.9ms	3.5"x1"	$New	$Call
4.36GB	XP34361S	7.9ms	3.5"x1"	$New	$Call
9.10GB	XP39100S	7.9ms	3.5"	$New	$Call

Maxtor®

[illegible] FAST ATA-2 DRIVE

- Model# [illegible]
- 2 YEAR WARRANTY
- 3,551 RPM.
- 64K Cache Buffer
- 12ms Average Seek Time

$189

Enhanced IDE Drives

425MB	7425AV	12ms	3.5"x1"	$135
540MB	7540AV	12ms	3.5"x1"	$159
850MB	7850AV	12ms	3.5"x1"	$189
1.2GB	71260A	<12ms	3.5"x1"	$246
1.6GB	71626A	<12ms	3.5"x1"	$416

PORTABLE ....

2.5" NOTEBOOK DRIVES

Quantum

341MB	DY341AT	17ms	IDE	$259
514MB	DY514AT	17ms	IDE	$299
540MB	20540EUA	17ms	IDE	$369
810MB	20810EUA	17ms	IDE	$419
1.08GB	21080EUA	17ms	IDE	$469
341MB	DY341S	17ms	SCSI	$229
514MB	DY514S	17ms	SCSI	$320

TOSHIBA

352MB	MK1824FCV	13ms	12.7mm	$265
540MB	MK1924FCV	13ms	12.7mm	$369
810MB	MK1926FCV	13ms	12.7mm	$499
1.3GB	MK2720FC	"NEW"	19mm	$649

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HD800	Portable 800MB+ Drive	$379
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Portable CD-ROM Drives

CD4X	Portable Quad Speed CD-ROM	$275

HARD DRIVES

MICROPOLIS

1.75GB FAST SCSI-2

- Model# [illegible]
- 5 YEAR WARRANTY
- 10ms FAST, 5400 RPM.
- 512K Cache Buffer
- 300,000 Hours MTBF

$698

External ... $748

FAST SCSI-2 DRIVES

				INT	EXT
1.75GB	MC2217	10ms	3.5"	$698	$748
2.0GB	MC4221	8.5ms	3.5"x1"	$852	$899
3.0GB	MC1936	13ms	5.25"	$725	$825
4.0GB	MC3243	8.5ms	3.5"	$1222	$1272
9.1GB	MC1991	11ms	5.25"	$1925	$1999

Audio Video FAST SCSI-2

1.75GB	MC2217AV	10ms	3.5"	$759	$799
2.0GB	MC4221AV	8.5ms	3.5"x1"	$924	$974
3.0GB	MC1936AV	13ms	5.25"	$829	$929
4.0GB	MC3243AV	8.5ms	3.5"	$1329	$1379
9.1GB	MC1991AV	11ms	5.25"	$2159	$2259

FUJITSU

[illegible] FAST SCSI-2

- Model# [illegible]
- 12ms FAST, 4500RPM.
- 256K Cache Buffer
- 300,000 Hours MTBF

$172

External ... $222

PicoBird IDE Series

530MB	M2684TAU	12ms	3.5"x1"	$160

PicoBird FAST SCSI-2

530MB	M2684SAU	12ms	3.5"x1"	$172	$222
1.08GB	M1606SAU	10ms	3.5"x1"	$343	$393

HEWLETT PACKARD

1.2GB FAST SCSI-2

- Model# [illegible]
- 5 YEAR WARRANTY
- 9.5ms FAST,5400RPM.
- 512K Cache Buffer
- 800,000 Hours MTBF

$406

External ... $456

FAST SCSI-2 DRIVES

				INT	EXT
1.2GB	C3724S	9.5ms	3.5"x1"	$406	$456
2.1GB	C2490SE	8.9ms	3.5"	$969	$1019
2.17GB	C3725S	9.5ms	3.5"x1"	$769	$819

.... SOLUTIONS

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adaptec

1460	Slim SCSI PCMCIA KIT **NEW **	$160
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qlogic™

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28.8	PCMCIA V.34 Data/Fax	$349
28.8	PCMCIA V.34 Dual Standard Data/Fax	$419

FAST WIDE

Seagate

FAST WIDE DRIVES

				INT	EXT
1.0GB	ST31230W	9ms	3.5"x1"	$629	$829
2.1GB	ST32550W	8ms	3.5"x1"	$1039	$1239
4.3GB	ST15230W	9ms	3.5"	$1059	$1259
4.3GB	ST15150W	8ms	3.5"	$1449	$1649
9.0GB	ST410800W	11ms	5.25"	$2259	$2559

FAST WIDE DIFFERENTIAL

4.3GB	ST15150WD	8ms	3.5"	$1535	$1799
9.0GB	ST410800WD	11ms	5.25"	$2312	$2699

Quantum

FAST WIDE DRIVES

2.1GB	XP32150W	8ms	3.5"x1"	$840	$1040
2.2GB	VP32210W	8.5ms	3.5"x1"	$714	$914
4.3GB	XP34301W	8.6ms	3.5"	$1022	$1222
4.3GB	XP34300W	8ms	3.5"	$1399	$1599

MICROPOLIS

FAST WIDE DRIVES

2.0GB	MC4221W	8.5ms	3.5"x1"	$855	$1055
4.0GB	MC3243W	8.5ms	3.5"	$1299	$1499
9.1GB	MC1991W	11ms	5.25"	$2099	$2399

CONNER

FAST WIDE DRIVES

1.0GB	CFP1060W	9ms	3.5"x1"	$599	$799
2.1GB	CFP2105W	8.5ms	5400RPM		$Call
2.1GB	CFP2107W	8.5ms	7200RPM		$Call
4.2GB	CFP4207W	9ms	7200RPM		$Call

WIDE ACCESSORIES

WIDE SCSI CONTROLLERS

adaptec

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3940W	DUAL Channel WIDE PCI Kit "NEW"	$437

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KT956C	32-Bit PCI Fast Wide SCSI-2 KIT	$255

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68-Pin SCSI Fast Wide 8 Connector 7 device	$119

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Centronics 50 to 68 Pin Fast Wide	3ft/6ft	$49/$55
68 Pin Fast Wide to Fast Wide	3ft/6ft	$57/$64

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1.2/1.44	TEAC Dual Floppy Drive	$85

NEC

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1640K	16-Bit MicroChannel forPS/2,7HD KIT	$277
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4510	Card Park PCMCIA Card Reader	$159
T348	Parallel to SCSI Plus 250KB/S	$90
T358	Parallel to SCSI EPP 1MB/S	$111

BusLogic

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KT545C	16-Bit ISABusMaster Fast SCSI-2 KIT	$205
KT742A	32-Bit EISA SCSI-2 KIT	$264
KT747C	32-Bit EISA Fast SCSI-2 KIT	$298
BT757S	32-Bit EISA Fast Wide SCSI Card	$322
SW-190	Software Drivers for BT757S	$35
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PM2122/90	32 Bit EISA *High Performance*	$394
PM2122/95	32 Bit EISA *High Performance*	$419
PM2024/90	32 Bit PCI Bus Master Kit	$263
PM2124/90	32 Bit PCI *High Performance*	$393
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qlogic™

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Q logic

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QLVLB/FL	32-Bit VLB-FL	$189
QLEISA/FL	32-Bit EISA-FL.	$195
PCMCIA10	*PCMCIA w/Corel SCSI Drivers*	$172
QLPCI-B	32-Bit PCI Basic Entry Level	$111
QLPCI-10	32-BitIQ-PCI Model 10 Narrow	$187
QLPCI-W	32-Bit IQ-PCI Wide SCSI-3	$284

FUTURE DOMAIN

TMC1610	16-Bit CD ROM KIT	$59
TMC1660	16-Bit Value Pack No Floppy	$100
TMC1680	16-Bit Value Pack 7HD/4FD	$111
SCSI2GO	PCMCIA TYPE-II FastSCSI-2(10mb/s)	$198
TMC3260	32-Bit PCI Value Pack w/PowerSCSI	$132
MCS700	16-Bit MicroChannel w/PowerSCSI	$123
MCS7000	32-Bit EISA SVP(2 Floppy Support)	$353

PROMISE TECHNOLOGY, INC.

DC440	**BusMaster SCSI/IDE VLB w/IO**	**$169**
DC540	**BusMaster WIDE SCSI PCI** (no wide cable)	**$178**

Quick Technology

High Performance Adapters..

Side-2935 32-Bit PCI, BusMaster Fast SCSI-2 Controller w/NCR 810 Chipset $45

Side-GOLD 32-Bit VLB + Fast SCSI-2 (>1GB Sup), E-IDE >528MB Support. 2-16550 Serial, 1 Bi-Directional Parallel(EPP/ECP),2.88 Support (Jumperless w/Drivers) $89

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BusLogic

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EIDE4030+	32BitVLBCaching 4HD+1ATAPI CD-Rom	$112
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DC5030	BusMaster PCI IDE Caching Controller	$123
DC540	BusMaster PCI SCSI WIDE(noCable)	$178

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400	16Bit ISA 2HD/2FD 2-16550S/1EPP/1G	$19
500	32Bit VLB 2H/2F 2-16550S/1EPP/1GE-IDE	$27
600	32Bit PCI 4H/2F 2-16550S/1EPP/1G E-IDE	$37

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GSI Controllers Increase the Performance of IDE & Floppy Drives. Also Doubles the Transfer Rate on Floppy Tape Backups.

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2183	16Bit IDE CD-ROM Controller	$10
2278E	32BitVLB w/MultiFunction 16550 I/O	$27
2280H	16Bit ISA IDE Super 16550 I/O 2S/1P/1G	$19

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- One Data Cartridge
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$879

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4326NP	4-8GB 5MB/sec 1MB Cache -INT	$877
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TS4000	4.0GB (QIC WIDE)-SCSI	$475
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T1000	800MB HP Colorado TRAVAN	$182
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PT50	4.0GB SCSI-2 - 1/4"	$1139/$1169
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Maxell/3M/Sony	90 Meter	$15/$65
Fuji-DG90M	90 Meter	$13/$55
Sony/HP	120 Meter(DDS-2)	$29/$139
4mm Cleaning Cartridge		$20/$95

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Sony	QIC-WIDE QW5122F up to420MB	$20/$95
Sony	QIC-WIDE QW3010XLF up to 850MB	$26/$125
Sony	QIC-WIDE QW3080XLF up to 4GB	$33/$160
3M	DC2750/MC3000 (750MB)	$28/$135
EXABYTE	DC2750/MC3000 (750MB)	$30/$145
EXABYTE	MC3000XL (1GB)	$39/$190
3M	MC3000XL (1GB)	$35/$168
3M	MC3000XL Formatted	$40/$190
Sony	QD2120 QIC80 up to250MB	$22/$105
Sony	QD2120 unformatted up to250MB	$19/$90
3M	DC2120 Ximat up 250MB	$17/$79
3M	DC2120XL Ximat up 350MB	$25/$120
Maxell	DC2120 unformatted tapes	$15/$69
Maxell	DC2120 QIC 80 formatted	$18/$85
Maxell	2120 Cleaning Kit	$22/$100
GIGATEK	DC2120 QIC80 up to250MB	$15/$69
GIGATEK	DC2120XL up to350MB	$22/$104

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Sony	QD6150 - 150MB	$17/$79
Sony	QD6250 - 250 MB	$23/$104
Sony	QD6525 - 525 MB	$29/$140
3M/Maxell	DC6150 - 150MB	$16/$75
3M/Maxell	DC6250 - 250MB	$22/$99
3M/Maxell	DC6525 - 525MB	$28/$135
GIGATEK	DC6150 - 150MB	$14/$65
GIGATEK	DC6250 - 250MB	$19/$90
GIGATEK	DC6525 - 525MB	$24/$109
3M	Magnus 1.2 - 1.2 GB	$45/$215
3M	Magnus 2.0 - 2.0 GB	$59/$285
GIGATEK	DC9120 - 1.2GB	$45/$215
GIGATEK	DC9200 - 2.0GB	$59/$285
Maxell	DC-9135 - 1.3 GB	$49/$235

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3M/Ricoh	128MB 512 bytes/sec	$30/$140
Verbatim/Maxell	230MB 512 bytes/sec	$47/$219
FUJITSU	230MB 512 bytes/sec	$48/$265
KOMAG/Philips	230MB 512 bytes/sec	$29/$139
OMD-230HS	230MB Pinnacle Hi Speed Media	$39/$190

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Maxoptix	1.2G-512b/s or1.3G-1024b/s-Glass	$189
Maxoptix	1.2G-512b/s or1.3G-1024b/s-Poly	$149
HP	1.2G-512b/s or1.3G-1024b/s	$109
OMD1200HS	Pinnacle 1.2G 512b Hi Speed (Universal)	$119
OMD1300HS	Pinnacle 1.3G 1024b Hi Speed	$119

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540MB	63min Compact Disc Other	$12.50/60
650MB	74min Compact Disc Kodak	$16.99/$80
650MB	74min Compact Disc Sony	$15.99/$75
650MB	74min Compact Disc Other	$13.99/$68
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DB-50 to DB-50 3ft	$39.99
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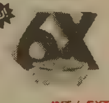

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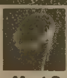

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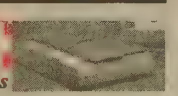

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Stupid UNIX Tricks: #256 In A Series

More Secrets Of The Ascended Masters With Too Much Time On Their Hands

A plaintive voice left the following message on my answering machine at work today:

"Can you help me?

"I have a file that contains a complicated command line for a program that I need to run often. Unfortunately the file contains a bunch of other stuff that I don't usually need to execute more than once a day. I know that I can use grep on the file and that it will print just the command line that I want to execute.

"Is there any way I can tell UNIX to execute the command line that grep returns?"

This is precisely the sort of problem whose solution is likely to be a Stupid UNIX Trick.

Stupid UNIX Tricks are frequently not all that stupid. In fact they tend to be very clever. The difficulty is that Stupid UNIX Tricks are ways of doing things so obscure that you feel stupid for needing to do them in the first place. The supreme paradox is that the tricks to do these obscure things seem to be an intentional part of the design of UNIX.

Stupid UNIX tricks are something like the Holy Grail, and given the chance to hunt for one, I dropped everything to look for a solution to the caller's problem.

Commands

Of course, it's important to think things carefully through before such a quest. The logical starting point was to ask, "So, just how do you execute commands on UNIX anyway?"

That seemed easy enough: ordinarily UNIX commands are invoked by name. You type in the name of a command and any command line arguments the command expects, and press return. This works because when you logged in to UNIX, a "shell" program was started for you. The UNIX shells (there's more than one) are programs that look for command names. Shells expect command names as input, and when they receive any input, they attempt to execute it. Sometimes this input is the name of one of the shell's built-in commands, sometimes it's the name of a program external to the shell. In either case the shell executes the named command.

So: UNIX commands are executed by giving the command's name to a shell as input. If the keyboard were the only source of input for the shell, that would be the end of the story, but of course, it's not.

In matters of input and output, UNIX is extraordinarily flexible. Most UNIX commands can read their input from or write their output to files. The use of files to control input and output of UNIX commands is usually called "redirection," and the "<" and ">" symbols provide a convenient way to redirect I/O in a command line.

* * *

Stupid UNIX Tricks are frequently not all that stupid. In fact they tend to be very clever. The difficulty is that Stupid UNIX Tricks are ways of doing things so obscure that you feel stupid for needing to do them in the first place.

* * *

For example, the following command line invokes the UNIX document formatting program "nroff." Nroff will look for input in a file named "raw_file" and write its output to a file named "formatted_file":

```
nroff < raw_file > formatted_file
```

UNIX is also capable of connecting the output of one command with the input of another. The mechanism for doing this is called a "pipe" and uses the "|" symbol. Where redirection connects UNIX command I/O with files, pipes connect command I/O with other commands. Piping looks like this:

```
cat rawfile | nroff > formatted_file
```

The "cat" command just copies its input (in this case, the contents of "rawfile") to its output. The output of cat is then connected to nroff's input. As with the first example, nroff's output is sent to a file named "formatted_file."

Throwing Stupid Tricks At The Problem

The ability to connect command I/O with files and other commands suggests two ways of answering the question that showed up in my voicemail.

To keep things simple, assume that the command to be executed is "ls" (which, when executed by itself, lists the contents of the current directory). If the command line "ls" appears in a file called "very_long_script," a grep command can be used to isolate the command name:

```
grep ls very_long_script
```

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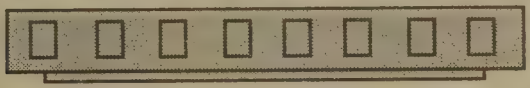

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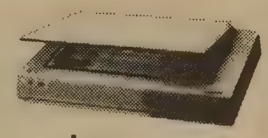

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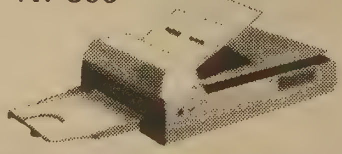

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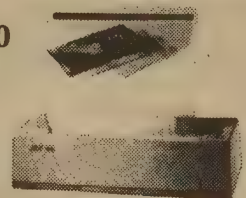

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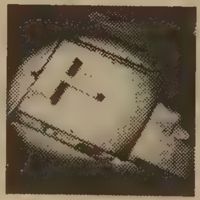

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This command will print any lines in the ls_script file that contain the pattern "ls." Of course, the problem is how to execute the line that grep prints.

One crude (but effective) way of doing this is to redirect the output of the grep command above to a file and then execute the file. Between these two steps, an additional command may be needed to make the file executable. The entire sequence looks like this:

```
grep ls very_long_script > ls_script chmod 700 ls_script ls_script
```

This is a lot of typing for very meager results, and it is not clever enough to count as a Stupid UNIX Trick.

Using a pipe to connect the grep command to a shell gets the same work done with fewer commands:

```
grep ls very_long_script | csh
```

The shell is looking for command names to execute and "ls" fills the bill. When the shell gets grep's output, it executes an ls command and returns the contents of the current directory.

As a way to invoke "ls," this is not terribly clever either, but the longer the command, the cleverer it gets. Imagine that the command to be executed is something like the following:

```
/usr/local/openwin3.0/bin/cm -geometry 495x459+414+222 -icon_position 68x64+275+ -3 -iconic -reverse &
```

Cm is a GUI calendar management program for Openwindows, and this sort of command line occurs routinely in Openwindows configuration files (usually named ".openwin-init"). Grep can be used to isolate a command from the .openwin-init file, and piping the output of grep to a shell will cause the isolated command to be executed:

```
grep cm .openwin-init | csh
```

Before executing cm this way, run the grep command by itself to be sure it isolates only the command you want to invoke.

Using grep-pipe-to-csh to invoke lengthy commands may be acceptably clever, but there are certain purists who will have a hissy fit over this because it requires starting up a second shell.

In an expansive mood a purist will argue that the second shell is redundant (after all, you were already running a shell) and that starting a new process takes some time and uses some additional system resources. More likely, the purist will simply assert that it's "inelegant" and walk off in a huff.

C shell users have an easy solution to the second shell problem using the "source" command: "Source" is a C shell built-in command that opens a shell script and executes the commands it contains in the current shell. The following sequence shows how to use "source" to execute the calendar manager mentioned above:

```
grep cm .openwin-init > my_cm source my_cm
```

While this addresses the "extra shell" problem, it doesn't really win any additional points for elegance or cleverness. After all, it requires two commands, and it risks the proliferation of messy little files which are almost as offensive to purists as redundant processes.

The people who designed UNIX realized that you might want to do more with the output of a command than stick it in a file or pipe it to another command. Sometimes, for example, it's handy to nest the output of one command in the middle of the command line that invokes something else.

You can do this by enclosing the "nested" command in backquotes (`...`). (If your keyboard has a "~" key, backquote is the character that's

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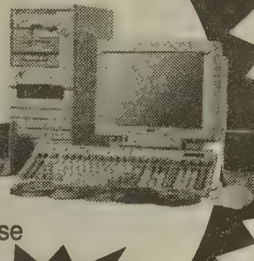

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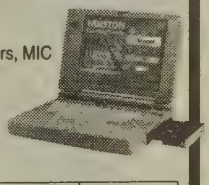

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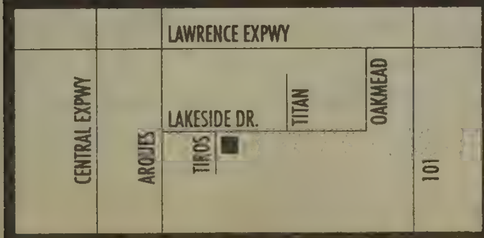

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UNIX *continued...*

printed when you press this key unshifted.)

Using the calendar manager example above, you could insert the output of "grep cm .openwin-init" into another command line by putting the grep command in backquotes. One way to test this is to use the "echo" command. All echo does is display the arguments on its command line, so the following command will show the resolution of the backquoted grep command:

```
echo `grep cm .openwin-init`
```

Since the objective is to run the command line that grep returns, it's very tempting to give the shell the backquoted grep command by itself:

```
`grep cm .openwin-init`
```

If this worked, it would be elegant and supremely clever, a Stupid UNIX Trick of the highest order. Regrettably, it doesn't work: it returns an error message stating that the command in backquotes is ambiguous.

Just a step below supremely clever, however, there is a built-in command common to all the UNIX shells that lets you pass something to the current shell as input. This built-in is "eval," one of the commands that everyone encounters in someone else's shell scripts and that relatively few people understand.

Eval reads the arguments on its command line and performs any variable or command substitution that the arguments call for. The result of this evaluation is then passed to the current shell for execution. If eval's arguments don't contain any variables or command substitutions, the arguments are passed to the shell unchanged. This means that something like:

```
eval ls
```

will just execute an "ls" command.

On the other hand, if the arguments to eval contain any "backquoted" command, these will be resolved before eval passes its arguments to the current shell. In order to execute the output of a grep command, simply present the backquoted grep command as an argument to eval. The following command line will execute the calendar manager command found in .openwin-init:

```
eval `grep cm .openwin-init`
```

Eval is closely related to the C shell's "source" command discussed above and to the "exec" command. In some versions of UNIX the three share a single article in the online manual. Exec is similar to eval, but executes its arguments *in place of* the current shell. This may be fine if you're running a GUI application like cm (which expects to continue running until you exit from it). It's not so wonderful if you're running a program like "ls" that does something and exits immediately.

This use of "eval" approaches the elegance and cleverness of a genuine Stupid UNIX Trick: it does what's wanted, it doesn't leave any residual files around to be cleaned up later, it doesn't start any redundant processes, and it uses a feature of the UNIX shell that is both universal and not widely understood. It has the additional virtue of using an obscure character on the keyboard.

When I happily reported this finding to the caller, she promptly pushed it over the top by writing an alias that executed the eval command above. ■

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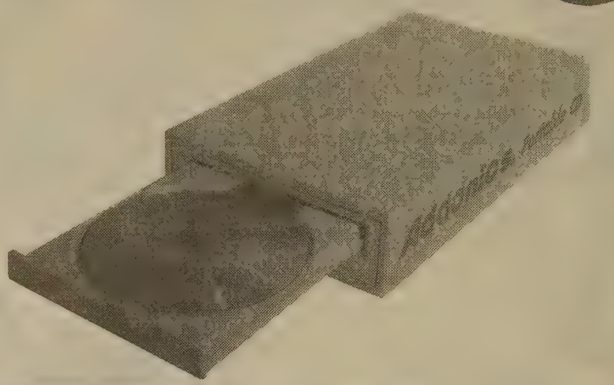

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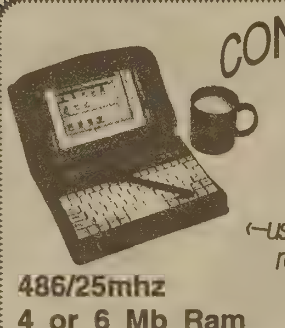

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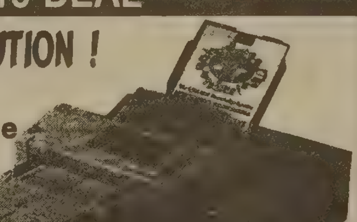

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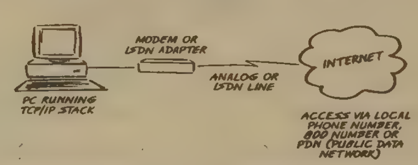
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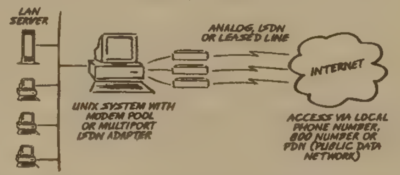
Another option is to use a service such as PSI's InterRamp which provides you with an actual IP address on the Internet. For this option, you need to run an IP protocol stack on your PC along with some type of Internet access package. There are packages available today that offer both TCP/IP and Internet access in a single package. Or, if you are technically adept, free "shareware" can be downloaded from the Internet.

LAN InterNet Access

Many companies today are choosing to provide all network members with Internet access. Following are two options for linking LANs to the Internet.

UNIX GATEWAY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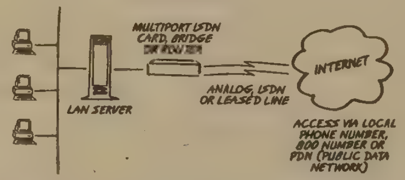
One of the easiest solutions is to set up a Unix host as a gateway for PC or terminal users to the Internet. For example, SCO's Global Access product integrates TCP/IP networking services, a graphical user interface, graphical e-mail, security and the SCO Unix operating system into a single package. Non-Unix Computers will need to run an X-terminals emulation package to access the Unix gateway. A modem pool Multiport ISDN adapter, or other communications device, is also needed.

IP ROUTER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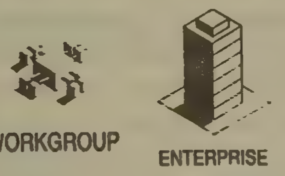

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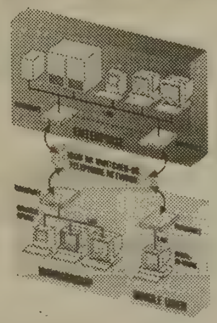

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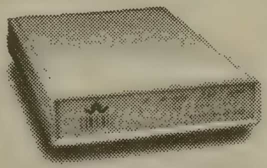

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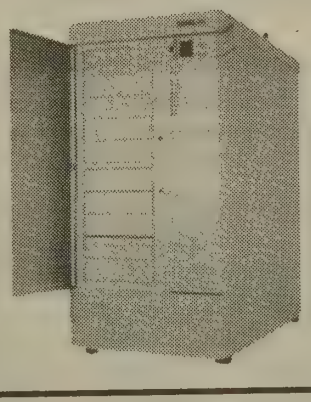

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OS/2 • BY FABIAN PASCAL

Going Native

Yes, There Is Some Good Native OS/2 Software, But...

I expected to continue writing about the new system this month; however, I developed reservations regarding the Intel Advanced ZP (Zappa) motherboard and, as I predicted in last column, Intel has not been very responsive. I think I found a more promising alternative, but until I have a chance to try it, let's go software.

The more "enthusiastic"—to be polite—proponents of OS/2 don't like my complaints about the dearth of good native OS/2 applications (and hardware drivers). To their mind I am just "whining"—things are just fine and increasingly getting better. It is interesting to note, however, how the very same people who declare themselves totally committed to competition and choice defend as quite acceptable—without any visible realization of the contradiction—circumstances where only one or, at best, two OS/2 solutions exist (not to mention niches where *nothing* exists).

Indeed, at least three pieces in the August issue of *OS/2 Magazine*—hardly an enemy of OS/2—reflect, even if obliquely, problems of the very nature I have chosen to be explicit and outspoken about for a considerable time.

This does not mean—and I never said—that there are *no* good OS/2 applications. My position has been that (a) there are too few of them—at least not enough to compete for quality; (b) they are frequently poorly supported; (c) a flood of new/better ones, or upgrades to the current ones, is not on the horizon (promises to the contrary notwithstanding).

Let's take a look at the set of applications I have adopted after sifting through several of them a week for years. Most of them are pretty old.

Bear in mind that software choices are a highly subjective matter, in terms of both needs and preferences, so everything that follows should be taken accordingly.

Everyday Use

I classify OS/2 software in two categories: utilities and application. The distinction is not always clear cut, but roughly they are defined as narrowly vs. broadly tasked.

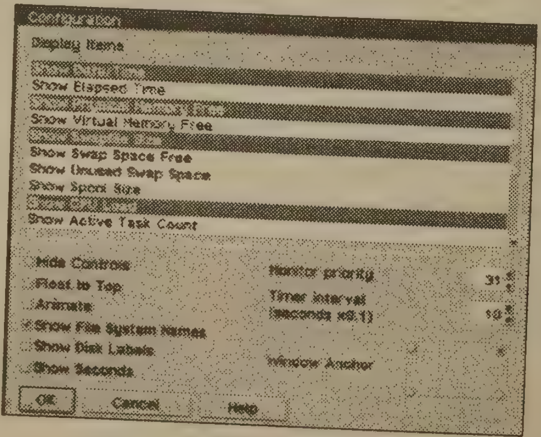
For example, a program to view or navigate directories is a utility, while one to manage finances is an applications. There seem to be lots of OS/2 utilities in various degrees of development, particularly on the various online services and BBSes, but not so many applications.

Utilities

There are several utilities that I use frequently, the kind that quickly become indispensable, a few of which I already mentioned or reviewed in previous columns.

MemSize: This is a configurable resource monitoring utility. Install it, select what you want to monitor (Figure 1), put a shadow in the startup folder, and the selected resources will be monitored on the desktop.

FIG 1.

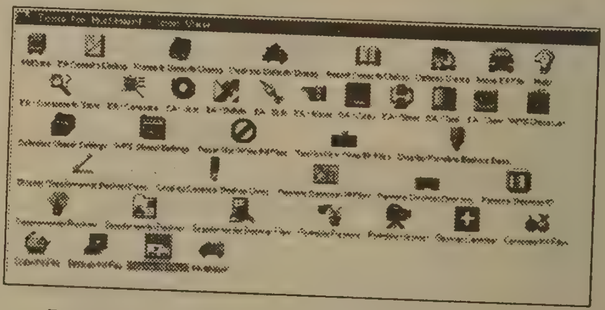


PrntScrn: This is a utility that I've used ever since OS/2 1.3. It takes shots of various portions of the display and outputs them as files in a variety of formats, to the clipboard or printer. Over time it has added some additional capabilities, such as a screen saver and date/time monitor. It has not had an upgrade in quite a while, maybe because it performs its intended function well. The figures in all my columns are TIFF files produced by PrntScrn.

PMJPEG: Another oldie but goodie which I reviewed in a previous column. It is a simple, fast way to view, make minor changes, convert the format of, or print graphic files.

MultiMaint: This was originally an INI file repair utility; over time, it's accumulated so many other functions that it is now a collection of utilities, including various desktop backup/restore features (Figure 2). However, I am still using mainly the INI viewing and cleanup facilities with which it started. Initially a shareware product, it is now a commercial product marketed as UniMaint.

FIG 2.



PMDirEnf(orcer): If you want to synchronize or coordinate the contents of two directories, this free utility comes in handy. You select the two directories, specify how you want their content listed (all files, only different files), and then copy, move, or delete files from one directory to the other in both directions (Figure 3).

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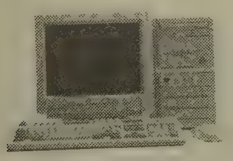

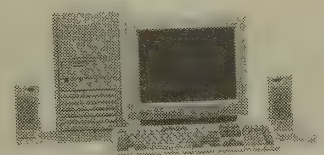

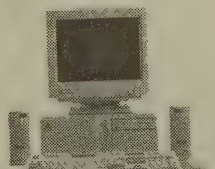

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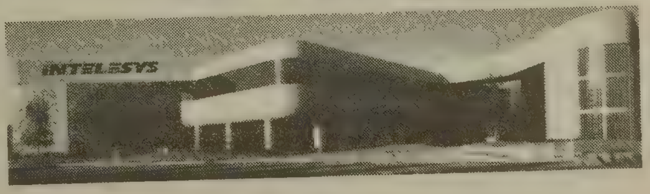

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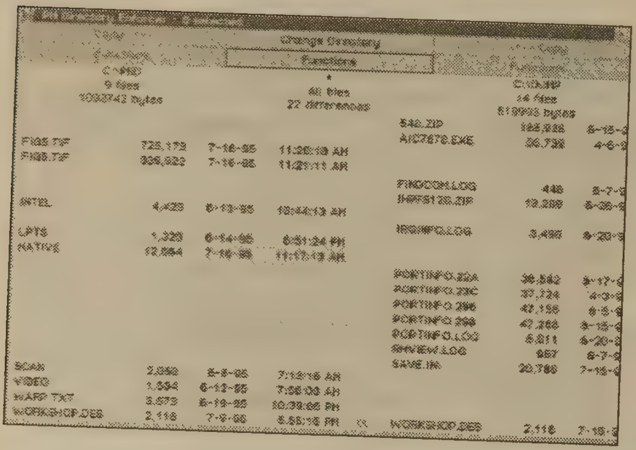
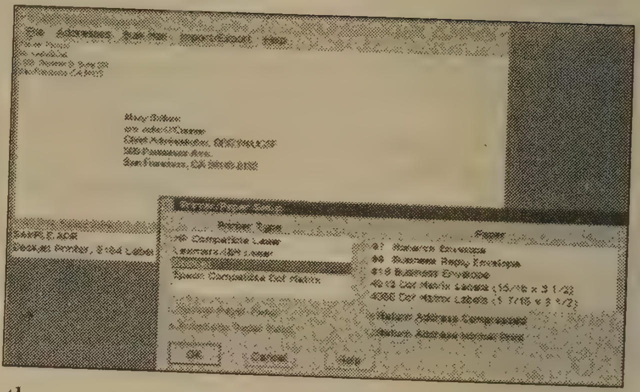
FIG 3.



APTMail/2: This Mailing Assistant prints envelopes and labels. You select the type of envelope or label type, fill in the send and return addresses (or select them from the program's database in which they can be saved) on an envelope on-screen (Figure 4), and print. You can use a specific label from a sheet (so that labels are not wasted), and labels and envelope sizes are supported. It does not have, however, address capturing or mail merge facilities, and the current version does not interface with the OS/2 printers. Rather, it has just a few built-in drivers of its own (see figure) and the fonts and address layouts are fixed.

CopyShop/2: This is a more recent utility that is useful, simple, and fast. It allows you to scan images with an HP ScanJet scanner to a PCL-based printer (effectively turning the scanner into a copier), to FaxWorks for faxing, or to files, which can be printed or faxed later (Figure 5). With the scanner's optional multi-page document feeder you can actually do mass copying in unattended mode. Highly recommended.

FIG4.



Applications

The following fall into the application category.

Freelance: This presentation application, already discussed in previous columns, is a good example of what inhibits OS/2—a good concept, poorly implemented and supported.

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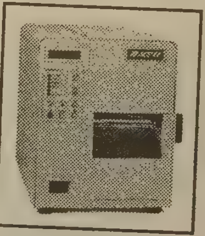

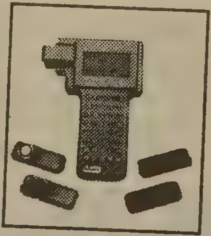

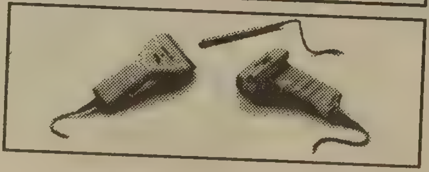

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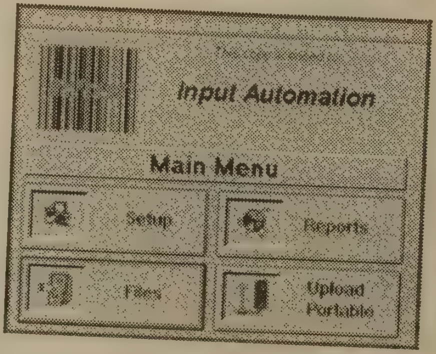

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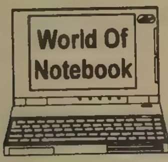

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256K Cache, 3VLB	256K Cache, 3VLB	256K Cache, 3VLB	256K Cache, 4PCI/4ISA	256K Cache, 4PCI/4ISA	256K Cache, 4PCI/4ISA
0-128 MB RAM	0-128 MB RAM	0-128 MB RAM	0-128MB RAM,2S/1P/1G	0-128MB RAM,2S/1P/1G	0-128MB RAM,2S/1P/1G
VLB IDE Ctl w/2S/1P/1G	VLB IDE Ctl w2S\1P\1G	VLB IDE Ctl w/2S/1P/1G	Enhanced IDE-PCI	Enhanced IDE-PCI	Enhanced IDE-PCI
TEAC 1.44 Floppy Drive	TEAC1.44Floppy Drive	TEAC1.44 Floppy Drive	TEAC1.44 Floppy drive	TEAC1.44 Floppy drive	TEAC1.44 Floppy drive
Mini-Tower Case w/250w	Mini-Tower Case w/250w	Mini-Tower Case w/250w	Mid-tower case w/250w	Mid-tower case w/250w	Mid-tower case w/250w
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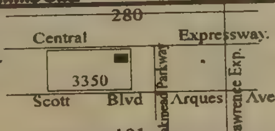

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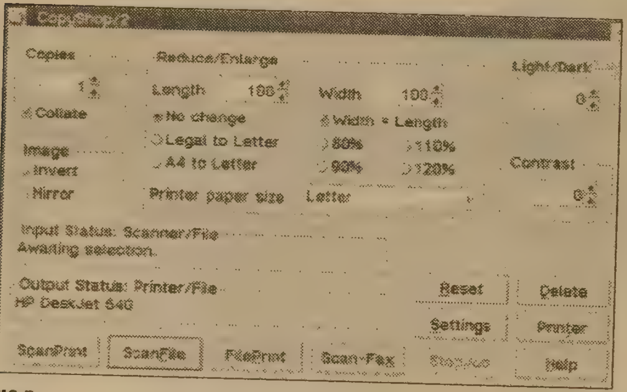

Copies 1
Length 100
Width 100
Printer paper size Letter

Input Status: Scanner/File
Awaiting selection.

Output Status: Printer/File
HP DeskJet 540

FIG 5.

When recently acquired by IBM, Lotus was described by the media as "the largest developer of OS/2 software."

Perhaps, but the first OS/2 version of Freelance, 2.0, came out years ago and it is limited—and not just relative to its Windows counterpart—buggy, inefficient, and slow. It fails to take advantage of OS/2's multithreading and WPS capabilities. Except for minor bug fixes more than a year ago, Lotus has not upgraded it (as it did the Windows version). With practically no support, the CompuServe section has "died," with quite a few users giving up and switching to Windows software. Aside from CorelDraw (whose circumstances are not better), this is the only presentation software under OS/2, so I am still using it. We'll see what the IBM acquisition of Lotus will do.

OS2CIM: There is only one OS/2 CompuServe navigator—Golden Commpass. While loaded with features and relatively well supported, for various reasons I just don't like it (a new version has just been released, however, and I will take another look). So I continue to use Tapcis/DOS in a VDM, even though it is rather antiquated and it hogs the CPU. Other than familiarity, it also has the advantage of minimizing time online, which is exactly what a navigator ought to do.

It is precisely because OS2CIM, the OS/2 version of CompuServe's WinCIM, is not a navigator/offline reader that I won't use it for email and forums. OS2CIM seems to be a straight port from Windows, fails to take advantage of OS/2 capabilities, and suffers from various other problems, including the same hogging of the CPU. An upgrade addressing all the issues is promised to be released soon, but I am skeptical (if not of the release, then of good OS/2 exploitation). Problems notwithstanding, I find OS2CIM more convenient than Tapcis for browsing libraries online and downloading files—it supports 28,800 speeds (vs. Tapcis's 14,400). And it's freeware.

PMFax: I use a developer's (Keller Group) version of FaxWorks, marketed by SofNet (which was acquired by Global Village). This version is accessible to me as a writer and I can report only on what ends up being released in the commercial

continued on page 312

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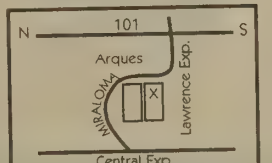

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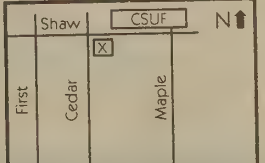

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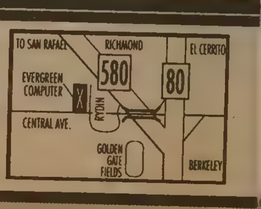

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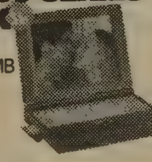

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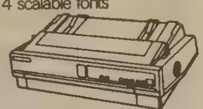

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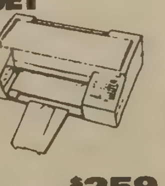

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And Then They Said...

Readers Talk Back

This month the readers write the column (and I get paid for it. I ask you—is this fair?).

First we look at two entries in our ongoing "Unusual Office" competition. After that, readers respond to two recent columns. Several professionals agree that file conversions are hell.

The Microsoft Word 6.0c comment ("Oh, NO, Mr. Bill") brought the most response. Two readers imply that I am stupid and ill-informed, or at least my computer is. A third says he has had nothing but grief with Word for Windows.

The Unusual Office

"Costanoan Indian Research Inc." (*canyon@scilibx.ucsc.edu*) wrote to say:

Hello Birrell—I would like to nominate a unique—and I mean really unique—office for consideration.

I am office coordinator for a facility on the only Indian land (Costanoan/Mutsun) in the Bay Area. This is in a box canyon near the Pinnacles and is on an Individual Indian Trust Allotment (allotted under 1887 laws in 1988!) held for Ann Marie Sayers.

The Indian Canyon office is in the remodeled garage of Elena Sayers, a full-blood Mutsun Indian who passed away in 1974. The Mutsun are a Costanoan tribal group from around San Juan Bautista. Her daughter, tribal leader Ann Sayers, started an educational and research foundation and the office. The office is used by volunteers and researchers working on historical and contemporary projects in the canyon itself.

There are traditional structures and ceremonies ongoing, so the office is in a very unique environment and overlooks a large underground round house. We have a donated Macintosh/CD system and a 286 DOS machine for simple database use. Also we use an off-site Mac in Santa Cruz with a modem connection for email, gopher and world wide web work.

We operate on a 1500 watt solar system, and a wide range of people work there, at different times. Resource and environmental interns, tribal census data entry volunteers, multimedia workshops and open houses are some of the projects and people who regularly use it. Our next step will be internet connection from the site itself and some multimedia database projects on California Indian-specific projects, such as GIS, talking maps, Indian Lands in California, network services for tribal email, etc.

Well, I thought the Costanoans had won for sure until I got this one:

From somewhere in North America

Howdy,

Your article in the June 26 Issue of MicroTimes *suggested that you might do a future article on an unusual small office. I believe that my extremely minimalist mobile office qualifies.*

My name is Lars Lohn, I am a consulting software engineer specializing in the use of the Rogue Wave C++ class libraries. My office consists of a Dell Laptop, cellular modem, cell phone, a file server, a small cabin on an organic farm and Shadow 1100 motorcycle.

In the Summer, I ride around entertaining myself on the bike in interesting places like the coast of Oregon, the mountains of Montana or the deserts of Utah. When I camp, the laptop computer comes out, I connect to BIX (one of my three Internet providers) and fetch my email via the cellular phone system. I have sat on the edges of a cliff in Canyonlands National Park writing persistence frameworks for Bell South. When I need to archive work from the laptop, I email it to the computer in my cabin in Oregon. Every night at 3AM, my machine there connects via UUCP and collects what I have sent it.

Often, I head to a client's location for on-site work. There I usually stay in a hotel where I receive more presentable clothing from home via UPS. When I'm done, I ship my clothing back home, don my leathers and hit the highway again.

My setup is evolving. I am using Procomm for Windows to fetch files from the machine at home, but my goal is to set up a machine using Linux. This requires some new hardware investment that will probably happen next Winter when the weather curtails my traveling.

The week of July 10th, I will be in the Bay Area. The following week, I'm heading back up to Montana to do some backpacking. Yep, the laptop goes with me into the wilderness. I'm probably one of few people around that gets email in the backcountry, although hitting a cell in Montana is sometimes problematic.

I hope you have found my setup interesting. If you want any more information, feel free to email me at klohn@bix.com .

lars the cyberbiker

The File Translation Nightmare

In May there was a column about the grief of multiple file formats. Just when you think you're done, I said, you get mired in file-conversion woes. This column struck a chord for readers.

From Livermore:

I enjoyed your article in MicroTimes *(May 1, 1995, "Then Just Convert The File"). You barely touched on a pet peeve of mine, the massive proliferation of formats for graphics files. That topic probably would be good for at least a column, probably a whole book! I know that there are bitmapped and vector graphics, and formats for video, each having its uses, but Why Oh Why must there be so @#$% many different formats? Why does almost every graphics program have to have its own proprietary format that won't translate well to another graphics program?*

It seems so useless to have so many formats. Every new program has a different proprietary format, and you can't get from one to another easily. I have Corel Draw! 3.0 and 4.0, Adobe Photoshop, Photofinish, Print Shop, Paintbrush, and several others. It can be a real pain to try to move a graphic from one to another except by exporting to one of the few (if any) common formats, or by cut and paste through the clipboard (when that is even possible).

And then there's the hassle of trying to remember what format the graphic you want was in when you use a program that will only recognize one at a time.

Carl

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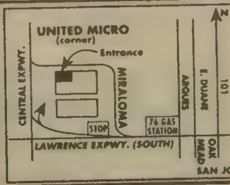

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Small Office/Home Office *continued...*

It's not just graphics files that cause problems. A reader wrote in with his own tale of word-processing file conversion, and his solution.

From Los Angeles:

Hi, I just read your article in this month's MicroTimes *(S. Cal. edition) about the ins, outs and woes of living in a computer world of multiple file formats. As a longtime "hermeneut" going back to CP/M days I have been writing translation utilities as a regular part of whatever job I have ever had, regular or consulting.*

In response to your question about intriguing translations, I thought I would mention one I am having with WordPerfect.

This being an age of computer connectedness, I have been taking great advantage of the ease of sharing my writing with my Internet-connected friends. More and more I find myself using WPs "Save As" translator to convert my wonderfully formatted scripts, poems, musings and correspondence into simple ASCII text for transmission over the phone and out into cyberspace. Part of the beautiful formatting provided by WP is the Smartquotes feature, which automatically inserts the appropriate typographic double or single quote into my document in lieu of the usual ASCII quotes, " and '.

Unfortunately, when I save the document as an ASCII text file, only spaces remain in the converted text where the quote marks existed in the original. What a pain, what a pity. WP has not responded yet to my written inquiries.

Since this is happening more and more, and since I am a hermeneut, it was a matter of writing a simple search and replace macro to find all the single and double open and close quotes and replace them with ASCII quotes. But still, who would think that the WP programmers wouldn't add the quotes to their translation tables in WP's very complete conversion utility? Version 6.2, anyone?

While not the nightmare that translations can often be, it is indicative of how easy it is for a company to overlook simple conversion errors within their own control. It sure makes those early days of Wordstar, dBASE II and Supercalc fond memories.

Ridge Tolbert, Los Angeles

Microsoft Word 6.0c

In the June 26 issue's "Good Service, Kind Words; Bad Service, Unkind Words," I said that Microsoft Word for Windows 6.0c crashes inexplicably and frequently on my machine. This got more mail than any other column, from people who agreed and people who disagreed vehemently.

From San Francisco:

I'm the system administrator for a small LAN in SF. Even though I did not select MS Word 6.0 to be the office standard, I constantly get grief from my users about the constant barrage of error messages and problems that Word 6.0 produces. Like you, I got quick, pat answers from the tech support people. These answers only work for a short time before the problems start coming back.

And to think that we upgraded to 6.0c to overcome the bugs of the earlier versions! It amazes me that Microsoft is as successful as it is.

Thanks for your article.

Donald Martin

Not all readers were so kind:

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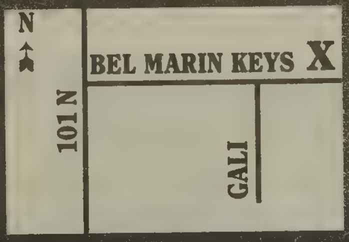

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Small Office/Home Office *continued...*

Mr. Walsh,

I just finished reading your article entitled "Good Service, Kind Words Bad Service, Unkind Words" in the June 26 issue of MicroTimes. *It ha been a long time since I read an article in a computer magazine writte by someone who is so uninformed about computers. While I certainl don't feel the need to defend Microsoft, let's limit the complaints to thos that are legitimate.*

Any DOS-based program of any complexity needs to know where th TEMP directory is located; this is not a function of an application, bu the operating system. By operating system, I don't even mean Windows but DOS. Now, DOS will set up a TEMP directory when it is installed. T lose it, you must have changed your AUTOEXEC.BAT file. The fact tha your new TEMP directory has files in it that you didn't place there means it is working as designed.

Computers are not typewriters; they require a certain amount of setup and maintenance. If you are unwilling or unable to perform these tasks, you should either hire a capable consultant, or go buy a Smith-Corona.

*We do agree on one point, however. The techs were *very* patient.*

Sincerely,
Steve Hutson

The problem I referred to was Word for Windows' apparent inability to create its own temp directory. Many simpler programs do so. If a Smith-Corona typewriter can do so—hmm...

One of my thoughts was that quickly written, unchecked object-oriented programs were part of the problem. Joe Warren disagreed.

From the SF Bay Area:

I run MS Word 6.0x all the time (currently under Win95 (build 490)) and have used it extensively under WFWG. I don't have any problems at all and it runs just fine. I suggest that the problem may be in the off-brand motherboard or video card that you are using. As a computer consultant, I have found that many people who complain of various compatibility problems suffer because they think that the low-cost motherboards and video cards are equivalent to the higher priced, better supported brands. It's like buying a Ford Escort and wondering why it isn't as quiet or nice as a Lexus. For the record, my current system is an older 486/66 (AMI EISA motherboard and BIOS) with 16 MB RAM, 2 SCSI hard disks totaling 1.6 gig and an ATI Graphics Ultra VLB card with 2 mb VRAM.

There is no software that is released fully debugged these days (a symptom of our must-have-it-now attitude). Running high-quality components can alleviate a large number of problems. A computer system is NOT like a home stereo setup. Sadly, you can't just plug anything in and it will always work.

As to object oriented code - BS. This has nothing to do with the issue. MS Word 6.0 is MUCH more reliable (based on the clients I have set up with it) and functional than Word 2.0. If all the systems in your home office are low-quality systems, then perhaps you have made the right decision to stick with 2.x. But remember, Word 2.0 also came in a, b, and c flavors. What will you do when Word 7.0 is released? What will you do when Win95 is officially released (and doesn't work on your setup?). Write another complaining article about how MS let you down?

Joe Warren

I spoke with Richard Leeds, president of Computer Product Introductions

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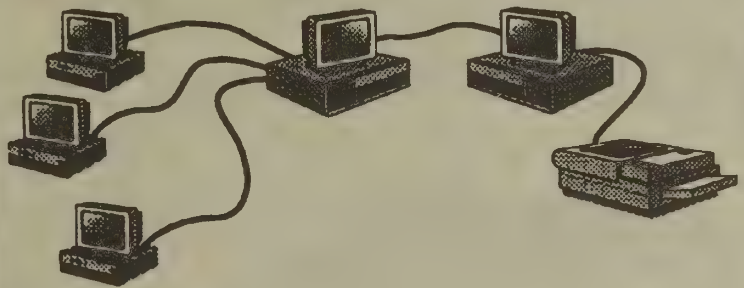

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in Bellevue, Washington. He too has Word fo Windows crash stories. He had a programmer friend who says of object-oriented programming tha "Information hiding is bug hiding." I wrote to the friend, Austin Watson, to get permission to use his quote. He responded in part:

From Bellevue, Washington:

Birrell -

You may quote me. I am a software project manager for Cirrus Logic Inc. We design ICs. My group develops BIOS and Driver level software for PCs that use our chips. I spend more time writing with MS Word than anything else. My motto is "Save Early, Save Often"—a rule I learned from Sierra when playing adventure games on my old Atari machine in the '80s.

We really are in the stone ages of code writing. This object stuff is just a way to put a pretty layer on top of the same crummy code we've been writing for the last 30 years. Don't get me wrong, object oriented development has benefits; reuse, inheritance, and strong typing being among them. However, it is my experience that people write poor quality code when their organizational methodologies are optimized for meeting schedules, not for developing quality products. And of course this is what we ALL are doing these days.

I am using Word 6 and Windows 95. The combination has crashed, giving me some "friendly" little dialog boxes attempting to help back out of the mess but ultimately resulting in lost work. I've never backed out of these crashes with my file intact. "Save early, save often."

(I had the same problems with Win3.1. I like Win95 a whole lot more. ... another article...)

Wouldn't it be nice if industry took a year off and dedicated it to quality? "The Quality Year". I'd trade a thousand worthless icons for a system that didn't destroy my intellectual property on a regular basis.

Austin Watson

So let's assume, differently from our habit, that the doings in Redmond have just this motive. Mr. Bill and all his people said, "Hey, let's do it right. It'll take a bit longer, but why not? We can make it *really* good this time. And if there are problems, we'll say 'Thanks for telling us!' and fix 'em." They've got a big red "Q" on the wall, for "Quality." What the hell, I like that picture !

If You Had Written In...

Your two-bits' worth might have been here. If you have a small or home office to nominate for the "Unusual Office," or if you have a few choice things to say, send them to *birrell@well.com* . ■

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Diamond Stealth SE with 1MB, PCI	77
Diamond Stealth 64 Video 2MB/4MB VRAM	**238/396**
Matrox Impression Plus 2MB VRAM PCI (Upgradable)	331
Matrox Impression Lite, PCI, 2MB VRAM	270
Number 9 GXE64 Pro PCI 2MB VRAM	324
Number 9 Imagine 128/1600 PCI 4MB VRAM (Retail Package)	801/1079
Number 9 GXE 64, PCI IMB/2MB VRAM	169/235
Number 9 Vision 330, PCI 1MB/2MB	127/162
Orchid Kelvin 64, PCI, 1MB (Upgradable)	115
Trident 9440 PCI or VESA Local Bus w/1MB	65

-Brand Name Controllers-

Adaptec 2940W SCSI 3 Controller	$222
Adaptec 2940 SCSI Controller, PCI	**181**
Adaptec 2842 SCSI Controller VLB	183
PCI Wide SCSI-3 NCR 825	109
PCI SCSI Controller, NCR 810	55
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PCI or VESA Enhanced IDE & Hi Speed I/O	32
ISA Enhanced IDE + Hi-Speed I/O	19

-Brand New Hard Drives-

420MB Conner	**$137**
540MB Conner	157
850MB Maxtor	185
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1GB Wide SCSI	568
2GB SCSI	686

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Colorado 800MB w/Tape Internal	188
Colorado 1.2GB	298

-Floppy Drives-

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Mitsumi 1.2/1.44 MB Floppy	26/37

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15" .28 1280x1024 NI NPR2 Green	305
Hitachi 15" 1280x1024 .28 Green, Non-Int	359
Hitachi 17" 1280x1024 .28 CM1786	669
IDEK 8617A 1600x1200 NI 17" High Refresh Rate Monitor	**759**

-Keyboards-

Mitsumi 101 Keyboard/Enhanced	$12/23
Microsoft Natural Keyboard	69
Keytronic 101 Keyboard	25

-Cases-

Full Tower with 250W Power	$83
Middle/Mini Tower with 230W Power	**58/32**
Desktop with 230W Power	42
230W Power Supply	29

-CD-ROM & Sound Card-

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Hitachi 4X Speed IDE CD-ROM Drive	140
Teac 4X CD-ROM Drive, & 1.44FDD Combo	176
Panasonic 4X SCSI CD-ROM	**218**
Panasonic 562, 320ms, 300kb	58
Creative Labs Sound Blaster 16 with ASP Chip	**78**
New Creative Labs Sound Blaster VIBRA, IDE	65
Gallant 80W, 2-way, Amplified Stereo Speakers	48

-Software (With System)-

Microsoft DOS 6.22/Windows 3.11	$36/40
Microsoft Windows for Workgroups	58
Microsoft Home CD Bundle (Encarta '95, Golf, Money, Works, Dangerous Creature, Entertainment)	61
Microsoft Office 4.3	323
Chinese Dictionary CD, Easy to Learn Chinese	39

-Fax/Modems, Mouses, & Lan Products-

14,400/14,400 BPS Fax Modem	$51
28,800 BPS Fax Modem, Int. V34	126
PCI EtherNet Card, DEC, Bus Master	99
Logitec Mouse Man (2 Button)	15
Mitsumi Mouse	9
US Robotics 28.8 Fax Modem, Int	**211**
US Robotics 14.4 Fax Modem, Int/Ext	87/121

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Super Pentium 133MHz, Intel Triton Chipset, EDO, socket VRM, pipelined cache 256K, P55 CPU upgradable, EIDE+FDC+Hi-Speed I/O	**298**
Super Pentium 133 MHz, Viper Chipset, 256K +PCI IDE	148
486DX4-100, VLB, 256K Cache	91
486DX4-100 PCI IDE + Fast I/O	135
New Intel Premiere PCI III Zappa Motherboard, Triton Chipset, EDO, 256K	216
New Intel Endeavor Pentium Motherboard w/Sound Blaster	238

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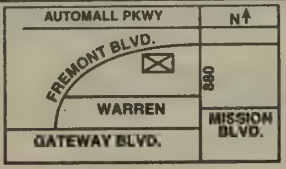

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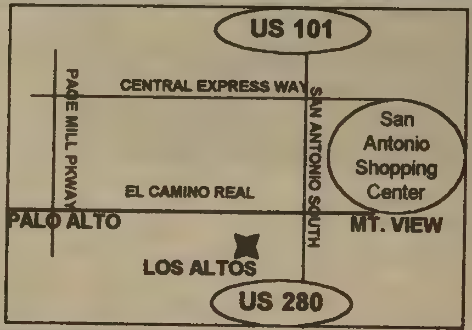

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- **Panasonic 4X SCSI-II CD ROM Drive**
- **Sound Blaster 16 w/ASP Sound Card**
- **70Watt Speakers**
- 101 Keytronic Keyboard
- Microsoft Serial Mouse & Mouse Pad
- **Microsoft Windows 95**

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Pentium 75..........$2050
Pentium100..........$2250
Pentium120..........$2450

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- **EDO Memory (Optional)**
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- **1.0Gb Fast SCSI-II Hard Drive**
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- MID Tower Case, 230 Watts PS
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- **ATI Win Turbo PCI 2MB VRAM**
- **NEC 6X SCSI-II CD-ROM (OEM)**
- **Sound Blaster 16 w/ASP Sound Card**
- **120 Watts Super Speakers**
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- **Microsoft Windows 95**

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Pentium133..........$3590

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- **Diamond Stealth 64 PCI 1Mb Video DRAM**
- 101 Keytronic Keyboard
- Microsoft Serial Mouse & Mouse Pad
- **Toshiba 4X IDE CD-ROM Drive**
- **Sound Blaster 16 Sound Card**
- 70 Watts Super Speakers
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Pentium75............$2115
Pentium100..........$2315
Pentium120..........$2515

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- 256K Cache, 4MB RAM 72-pin
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- Enhanced PCI /IDE I/O Controller
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- PCI Graphic Accelerator 1MB
- 101 Keytronic Keyboard
- Microsoft Compatible Mouse w/ Pad
- **Panasonic 2X IDE CD-ROM**
- **Turtle Beach Montecarlo 16 Sound Card**
- **70 Watts Super Speakers**
- **MS-DOS 6.22 & Windows 3.11**
- **Microsoft Encarta 95**
- **Microsoft Works & Money**
- **Microsoft Golf**
- **Microsoft Entertainment Pack**

Special

$1200

Multimedia

486DX4-100.........$1225
486DX4-120.........$1310

IQ Level-4 VLB/MCD

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- **486DX2-80Mhz** Processor w/FAN
- Pentium™ P24T Ready
- 256K Cache, 4MB RAM 72-pin
- 1.44Mb Floppy Drive
- **540Mb IDE** Hard Drive
- Enhanced VLB /IDE I/O Controller
- 2-Serial, 1-Parallel, 1-Game ports
- Mini Tower Case, 230 Watts PS
- 14" SVGA 1024x768 NI 0.28dpi
- VLB Graphic Accelerator 1Mb
- 101 Keytronic Keyboard
- Microsoft Compatible Mouse w/ Pad
- **Panasonic 2X IDE CD-ROM**
- **Turtle Beach Montecarlo 16 Sound Card**
- **70 Watts Super Speakers**
- **MS-DOS 6.22 & Windows 3.11**
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- **Chessmaster 4000**
- **Animal**
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- **Mavis Beacon teaches typing**

Best Buy

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486DX4-100.........$1175
486DX4-120.........$1260

IQ Level-5 LINUX

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- *2-Serial, 1-Parallel (High Speed UART)*
- *Mini Tower Case, 230 Watts PS*
- *15" SVGA 1280x1024 NI 0.28dpi*
- *ATI PCI Graphic Accelerator 2MB*
- *Double Speed CD-ROM*
- *Sound Blaster 16 Sound Card & Speakers*
- *101 Keytronic Keyboard*
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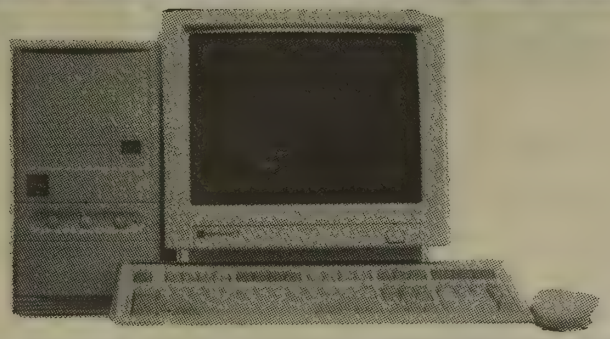

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- Built In Enhanced PCI /IDE I/O Controller
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- Mini Tower Case, 230 Watts PS
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- 101 Keytronic Keyboard
- Microsoft Serial Mouse & Mouse Pad
- **Quad Speed CD-ROM Drive**
- **Sound Blaster 16 Sound Card**
- **70Watts Super Speakers**
- **Microsoft DOS 6.22 & Windows 3.11**
- **Microsoft Encarta 95**
- **Microsoft Works & Money**
- **Microsoft Entertainment Pack**

Multimedia

$1880

Pentium 75..........$1780

Pentium100..........$1980

IQ Level-5 Basic
STUDENT PENTIUM

- Intel PENTIUM™ 90Mhz Processor w/FAN
- 256K Cache, 8Mb RAM 72-pin
- 1.44Mb Floppy Drive
- **540Mb IDE Hard Drive**
- Built In Enhanced PCI /IDE I/O Controller
- 2-Serial, 1-Parallel (High Speed 16550)
- Mini Tower Case, 230 Watts PS
- 14" SVGA 1024x768 NI 0.28dpi
- Diamond Stealth 64 PCI 1Mb DRAM
- 101 Keytronic Keyboard
- Microsoft Serial Mouse & Mouse Pad
- **Double Speed IDE CD-ROM Drive**
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- **MS-DOS 6.22 & Windows 3.11**
- **Microsoft Works & Money**
- **Microsoft Golf**

Best Buy

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Pentium 75..........$1535

Pentium100..........$1735

IQ Level-5 SUPER SCSI
SUPER PENTIUM

- Intel PENTIUM™ 100Mhz Processor w/Fan
- Intel Triton Chipset Mainboard w/256K Cache
- Pipeline Burst SRAM (Optional)
- **32Mb EDO RAM 60ns**
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- **Integrated Adaptec 2940W SCSI Ctrl**
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- **NEC 6X SCSI-II CD-ROM (OEM)**
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- **120 Watts Super Speakers**
- **Microsoft Natural Keyboard**
- Microsoft Serial Mouse & Mouse Pad
- **Microsoft Windows 95**

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Pentium120..........$4535

Pentium130..........$4675

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Sound Blaster 16 w/ASP	**$90**
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TOSHIBA 3601B *(4.4X SCSI)*

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Adaptec 2940W PCI/SCSI-II	$255
NCR Fast SCSI-II 810	**$65**
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VisionMaster 17 (17" 1600x1280 NI 0.26)	$760

SONY

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17SF (15" 1280x1024 0.25)	$855

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Diamond Stealth 64 2Mb VRAM	$259
No#9 Motion 771 4Mb VRAM	$435
No#9 Motion 771 2Mb VRAM	$279
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Trouble For Bean Counters

High-End Accounting Software Has Serious Deficiencies

Fifteen of the biggest-selling, priciest, high-end microcomputer accounting software packages are "seriously deficient." That is the conclusion of a major study initiated by the American Institute of Certified Public Accountants and undertaken over a one-year period. The evaluators include the authors, Harley M. Courtney, Ph.D., and Cheryl L. Flippen, as well as about eighty accounting students at the University of Texas at Arlington.

Many high-end accounting installations contain ten or more modules costing roughly $400 to $1000 each. Contrary to what one might expect from these price tags, the study confirms widely held skepticism that many vendor claims about their capabilities are greatly exaggerated or unfounded.

The fifteen examined packages are: ABS, AccPac, AccountMate, CYMA, Great Plains, Infinity, Libra, Macola, MAS 90, MICA, Open Systems, Platinum, RealWorld, SBT, and Solomon (see Resources).

The Texas team's analysis underscores the difference between an academic study and the kind of software reviews that predominate in the consumer press. It leads one to question the popular press tendency to glibly announce high-end accounting software packages that "just keep getting better every year," glossing over hard issues, and supplying oversimplified "scale of one to ten" ratings.

What is especially provocative about the Texas study is the fact that it took over eighty people more than a year, yet they examined only four modules of each package: general ledger, receivables, payables, and inventory. At that, only certain aspects of those modules are considered. The effort reflects the complexities in evaluating a high-end accounting package.

The Courtney study determined that the quality of audit trails and internal controls (necessary to protect a firm's assets and to permit auditors to form supportable opinions on financial statements) varies widely, with several packages clearly inadequate for many uses. Widespread shortfalls in products' ability to produce reports that enable management to plan and control operations are similarly reported.

> **Fewer than half** the packages report **excess inventory,** which accountants consider a significant **management tool.** The study identifies two packages that **give no warning** when inventory falls **below critical levels.**

I present examples from the Courtney study of some of the more serious weaknesses, but without delving into a brand-by-brand comparison (the study itself is more comprehensive). My purpose is not to point fingers at which product will and won't do what. Rather, it is to heighten awareness of the types of problems that need to be considered when deciding on accounting and financial software for your business. When it comes time to actually settle on an accounting system, there's little substitute for the exhaustive checklists available from Courtney and other serious reviewers comparing features and attributes.

Financial Reporting Defects

One of the basic financial statement requirements is to present a statement of cash flows, reporting sources and uses of money. The cash flow statement should comply with the dictates of the Financial Accounting Standards Board. But the study finds only one of the fifteen packages to be in compliance.

Moreover, when the authors asked the vendors about the omission, "several evidenced no understanding of the nature, purpose, or content of the cash flow statement; yet they promote their products as conforming to generally accepted accounting principles."

Several reporting activities that accountants consider critical to management are missing. In the accounts receivable area, three of the packages provide no projected cash receipts report, "even though cash budgeting is one of the most critical

continued on page 318

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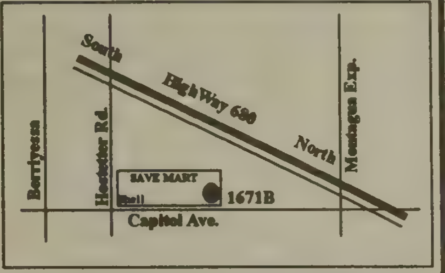

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	MB	MB+CPU
Intel Triton P5-133/256K PCI	185	1160
Intel Triton P5-120/256K PCI	185	915
Intel Triton P5-100/256K PCI	185	632
Intel Triton P5-90/256K PCI	185	500
Intel Triton P5-75/256K PCI	185	395
SIS PENTIUM-66/256K PCI	107	357
SIS PENTIUM-60/256K PCI	107	317
SIS 486DX4-100C VLB AMD	62	160
SIS 486DX2-80C VLB AMD	62	147
SIS 486DX2-66C VLB AMD	62	140
SIS 486DX2-66C VLB INTEL	62	167
SIS 486DX-50C VLB INTEL	62	222
SIS 486DX-33C VLB INTEL	62	119
IBM 486 SLC 66 VLB	N/A	109

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2x32-80/70 8MB	240/250
4x32-80/70 16MB	440/460

30 PINS MEMORY

1x9-80/70 1MB	30/33
4x9-80/70 4MB	120/130

HARD DRIVERS

MAXTOR 540 MB IDE	160
CONNER 420 MB IDE	140
CONNER 540 MB IDE	160
CONNER 810 MB IDE	195
CONNER 1.0 GB IDE	285
QUANTUM 540 MB SCSI	180

KEYBOARDS

Mitsumi keyboard	13
Keytronic	24
Focus 2001	35

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* 8 MB High Speed RAM
* 1.44 Floopy Drive
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* SVGA PCI W/1MB (For Pentium)
* 14" SVGA .28 Color Monitor
* Mini Tower Case w/230W P.S.
* Mitsumi keyboard
* Microsoft Compatible Mouse + Pad
* Double Speed CD-ROM
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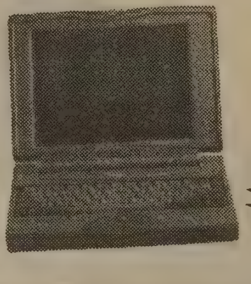

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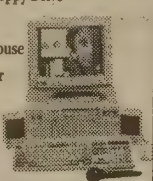

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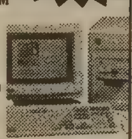

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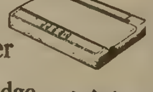

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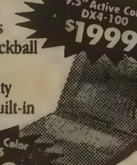

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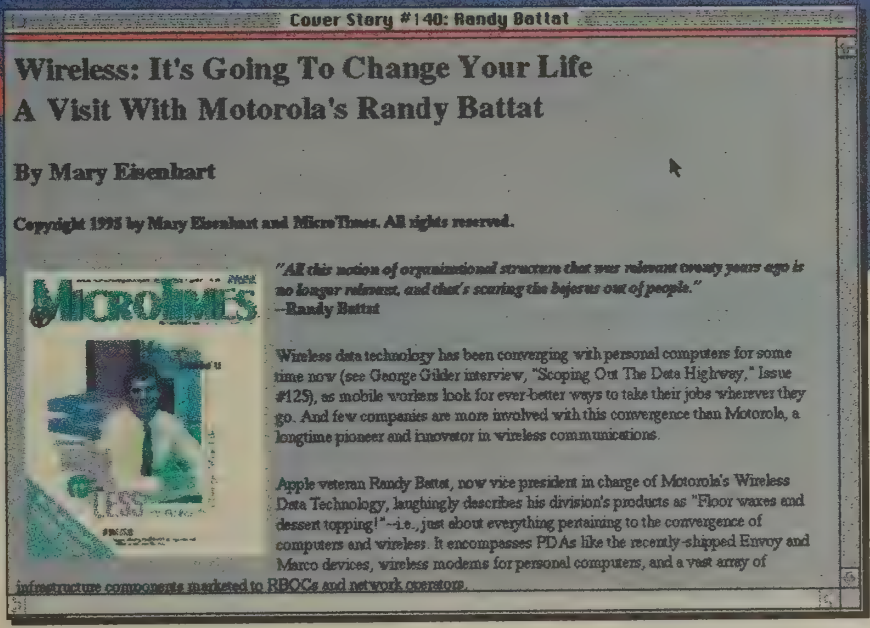

Wireless: It's Going To Change Your Life
A Visit With Motorola's Randy Battat

By Mary Eisenhart

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"All this notion of organizational structure that was relevant twenty years ago is no longer relevant, and that's scaring the bejesus out of people."
--Randy Battat

Wireless data technology has been converging with personal computers for some time now (see George Gilder interview, "Scoping Out The Data Highway," Issue #125), as mobile workers look for ever-better ways to take their jobs wherever they go. And few companies are more involved with this convergence than Motorola, a longtime pioneer and innovator in wireless communications.

Apple veteran Randy Battat, now vice president in charge of Motorola's Wireless Data Technology, laughingly describes his division's products as "Floor waxes and dessert topping!"--i.e., just about everything pertaining to the convergence of computers and wireless. It encompasses PDAs like the recently-shipped Envoy and Marco devices, wireless modems for personal computers, and a vast array of infrastructure components marketed to RBOCs and network operators.

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Online Guide

INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

"Communications Decency" The New McCarthyism

Communism Is Dead, But Pornography, Especially Child Pornography, Has Taken Its Place As The Political Expedient Of This Decade.

***"Do you now** or have you ever made, transmitted, or otherwise made available any comment, request, suggestions, proposal, image, or other communication which is obscene, lewd, lascivious, filthy, or indecent?"*

Get used to that question. You may well have to answer it soon.

On 14 June 1995, the US Senate attached S.314, the so-called Communications Decency Act (CDA) of 1995, to the Telecommunications Reform Act (TRA), by a vote of 84 to 16. The following day, the Senate overwhelmingly approved the TRA.

The wording in the question above differs from the letter of the CDA only in being recast in the form of a question. If this bill becomes law, you will be liable to up to $100,000 in fines and up to two years in jail for making an "indecent" comment. The entire text of CDA, and of the debate preceding its approval, is available through URL:*http://www.zilker.net/senate/s314.html* and from numerous other places on the Internet.

For what you can do about this bill, see the end of this article.

The nominal incentive for the bill is to prevent pornography being available to children. If you agree with that goal, you're in the company of a great number of Americans. However, if you assume CDA is something you would favor, please read it first.

Considering that 98% of Internet users are older than 18 (see the April *Matrix News*), and that there already exist commercial services to pre-censor information for children (see "Decency Filters," *Matrix News*, June 1995), there was no need for any action whatever on the part of the US Congress.

The action the Senate has chosen to take would, because of its vague, absurdly overbroad language, seriously damage a social, economic, and technical field in which the United States leads the world and which itself is one of the most dynamic both in this country and in the world. Since the Internet is a great tool for education, the Senate's action would adversely affect our youth by stifling that tool before most children even get to use it.

This bill is not about protecting children. It is about political grandstanding using a politically easy target. Congress can get away with it now, when less than 10% of the US population is on the Internet, just as they could get away with red-baiting when only a small percentage of the US population was Communist. But Communism is dead, and the Internet is not. The Internet will keep growing, even if shot in the groin by Congress. In a few years, there will be enough people on the Internet to remember what was done in Congress in June 1995 and by whom and to vote correspondingly. We hope we don't have to wait that long.

If anyone actually believes *TIME* magazine's assertion in its July 3 issue that 83% of Internet traffic is pornographic, we have some beachfront property in Nevada to sell them.

In the meantime, the much larger victim of this bill, which *will* affect you, whether you are for or against government regulation of the Internet, whether you are on the Internet or not, is the First Amendment of the US Constitution.

The Real Problem

If anyone actually believes *TIME* magazine's assertion in its July 3 issue that 83% of Internet traffic is pornographic, we have some beachfront property in Nevada to sell them. While that issue of *TIME* was merely one of the worst of recent bad media treatments of the subject, it was notable not only for being based on a study of very questionable methods and results, but also for distorting even those results beyond recognition. In fact, the newsgroups *TIME* hyped as being pornographic account for at most a few percent of Internet traffic, and are clearly marked as to content. See *http://www.zilker.net/swg/* for more on this.

Now nobody denies that there is nasty stuff on the Internet, by whatever definition of nasty you care to choose. We hope nobody denies that the same is true of the world at large, too. We don't lock our children in a room all their lives because of it. We shouldn't deny them the Internet because there are a few areas of it we or they might not like.

Regarding "indecent" language, don't parents

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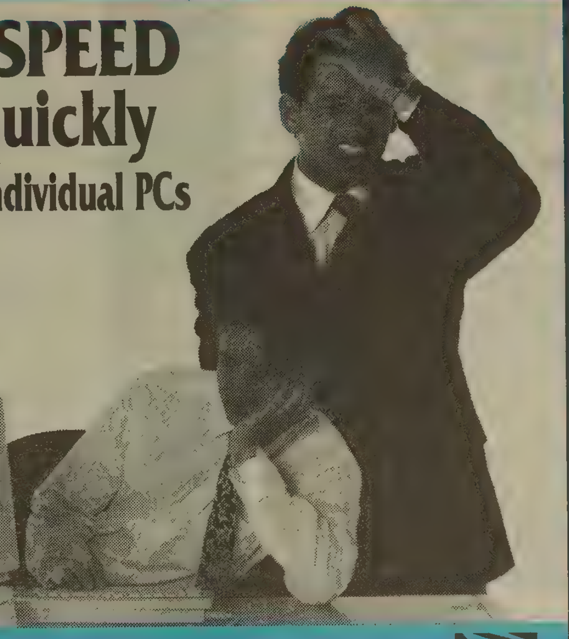

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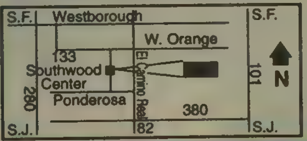

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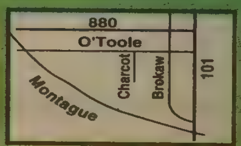

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nternet *continued...*

teach their children what to do if they encounter people or a conversation with bad language? How is the situation any different on the Internet?

If a child ran away in a bookstore and found a book of erotica, the bookstore owner would be liable if CDA applied to bookstores. In such a case, where is the responsibility of the parent? Or of the child, for that matter? Do parents let their children go into the corner convenience market? If so, do they not teach them not to grab adult magazines off the shelf? Such materials are already segregated into clearly marked areas on the Internet (and for that matter most adult pictures on the Internet come from those same adult magazines). Various commercial ventures are already providing further technical means for such labelling (see below).

The Internet is large; it contains multitudes. In that way, it is much like the world itself, and not by accident, since its participants are a large and rapidly growing slice of life at large. Basically, there was no real problem to be solved, because the Internet introduces no problems that didn't already exist.

The Legal Problem

CDA would not inhibit the dissemination of obscenity or child pornography. The Acting Assistant Attorney General of the US is on the Federal Record as saying so explicitly (see the transcript available through the cited URL):

> *In sum, sections 402 and 405 of the bill would hamper the government's ongoing work in stopping the dissemination of obscenity and child pornography and threaten law enforcement's continued ability to use court-authorized wiretaps. We believe that a comprehensive review be undertaken to guide response to the problems that the Communications Decency Act seeks to address.*

The AAG also notes that CDA conflicts with several recent laws passed by Congress. All this corroborates our contention that CDA is not an anti-pornography bill; it is just political grandstanding so that a lot of politicians can look tough on pornography.

The AAG also notes some interesting potential side effects of CDA, including on the freedom of the traditional print or electronic press to gather news:

> *Additionally, the amendment might also impact upon the news gathering process. For example, if the conversation of two individuals shouting in a hotel room were recorded by a news reporter standing outside the room, the reporter would, under section 405, be violating the wiretap statute. Under current law, of course, the individuals could not complain about the recording because, by shouting loud enough to be heard outside the room, they lack any reasonable expectation of privacy.*

CDA is written so broadly and vaguely that it is probably unenforceable on a broad scale. However, for the same reason, it will permit any prosecutor to bring charges against practically anyone who posts anything that might somewhere be considered "indecent." The bill nowhere defines any of the terms "obscene, lewd, lascivious, filthy, or indecent."

What's Indecent?

In the early days of Khomeini's Iran, a woman could call down the wrath of the Revolutionary Guards by going out with one hair of her

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head uncovered. In the France that formerly sheltered Khomeini, by 1995 a woman could get arrested for wearing a head scarf in a public school. In the early days of this country, saying the word "hell" at the wrong time could land you in the stocks; there is still a law on the books in Maryland that requires burning a hole through the tongue for blasphemy, yet it is no longer enforced now that such words are commonly heard on television.

> There is still a law on the books in Maryland that requires burning a hole through the tongue for blasphemy, yet it is no longer enforced now that such words are commonly heard on television.

Not so long ago teaching evolution was considered blasphemous enough to get you fired or brought up on charges. Indecency is whatever enough people say it is, and it varies with time and place. The Internet doesn't stop at any one place, so there will always be items from one part of the world that will be considered indecent on other parts of the Internet.

Huckleberry Finn, by Mark Twain, uses the word "nigger," and various parents' groups have tried to ban it because that word is now socially objectionable, even though one of the main points of that book is that contemporary attitudes towards black people were wrong. Is that novel therefore indecent, and anyone who posts excerpts from it liable?

What about other works by Twain? If he wrote one thing that was "indecent" must all his works be suspect? Should the works of one of America's greatest writers be prohibited to everyone on the Internet because some parents somewhere object to them?

Misunderstandings are always common. Nowadays ordinary behavior in Southern California could get you arrested in Vermont. If you post it on the Internet, after CDA you could be fined. A passionate love letter to your spouse that accidentally gets misdirected could land you in jail. Don't even think about art, which often depends on ambiguity and irony.

CDA doesn't even say who gets to complain, or where. The Louvre is online. Can it be sued for providing nudes by Old Masters? Can any ISP that provides access to such pictures? Can an Internet user in Saudi Arabia sue an Internet user in the United States for advocating multiparty democracy? That's an indecent idea in many parts of the world. Exactly where does prohibiting "indecent" material

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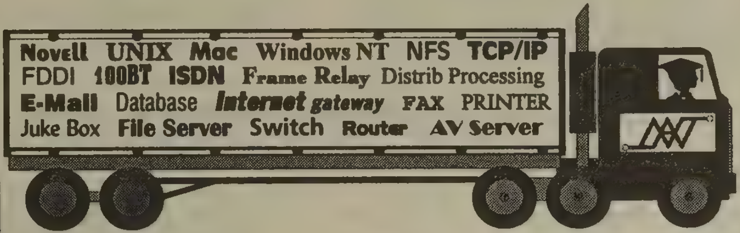
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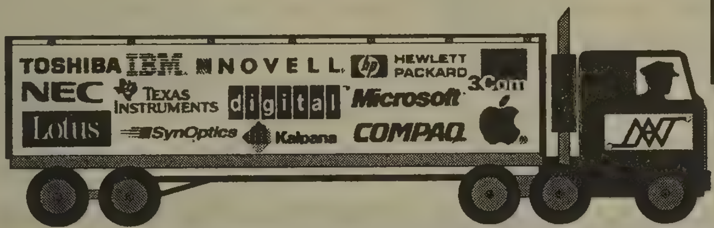
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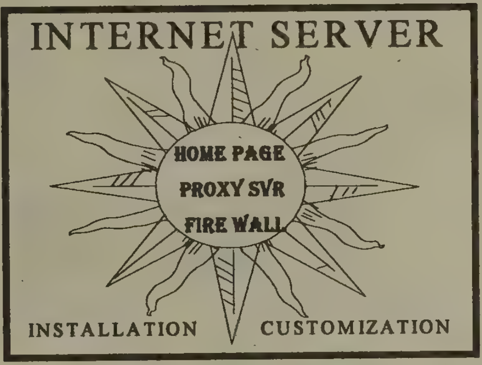
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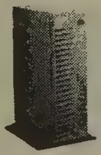

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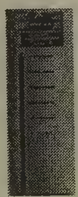

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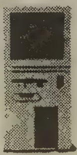

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fade into prohibiting politically unacceptable opinions in the United States?

The Economic Problem

CDA would put hundreds of small Internet Service Providers (ISPs) out of business, since they would not be willing to take the risk of legal action. But big ISPs wouldn't be immune, either. The final clause of CDA is quite explicit that each and every person who posts anything prohibited by CDA can be prosecuted:

(a) If any provision of this Title, including amendments to this Title or the application thereof to any person or circumstance is held invalid, the remainder of this Title and the application of such provision to other persons or circumstances shall not be affected thereby.

Even the deepest pockets can be emptied by that kind of legal action. One public flame war by ISP staff and another ISP out of business.

There are other ways CDA can get an ISP. Sen. Exon, the sponsor of the bill, said in his testimony that:

For instance, if an access provider were to create a menu to assist its customers in finding the pornographic areas of the network, then that access provider would be doing more than solely providing access to the network.

Well, YAHOO is "a menu to assist" in finding all sorts of areas. Put up a web crawler, go to jail. Elsewhere the Senator says that providing an index would be actionable. Thread your Usenet newsgroups, go to jail.

Technical Solutions

As we already remarked previously in this column ("All the Data That's Decent?" *MicroTimes* #136), there are already technical solutions available to limit access to material on the Internet, and parents are perfectly capable of deciding when to apply them. Since that column, even more such technical solutions have become available.

As Sen. Feingold said in his testimony against CDA:

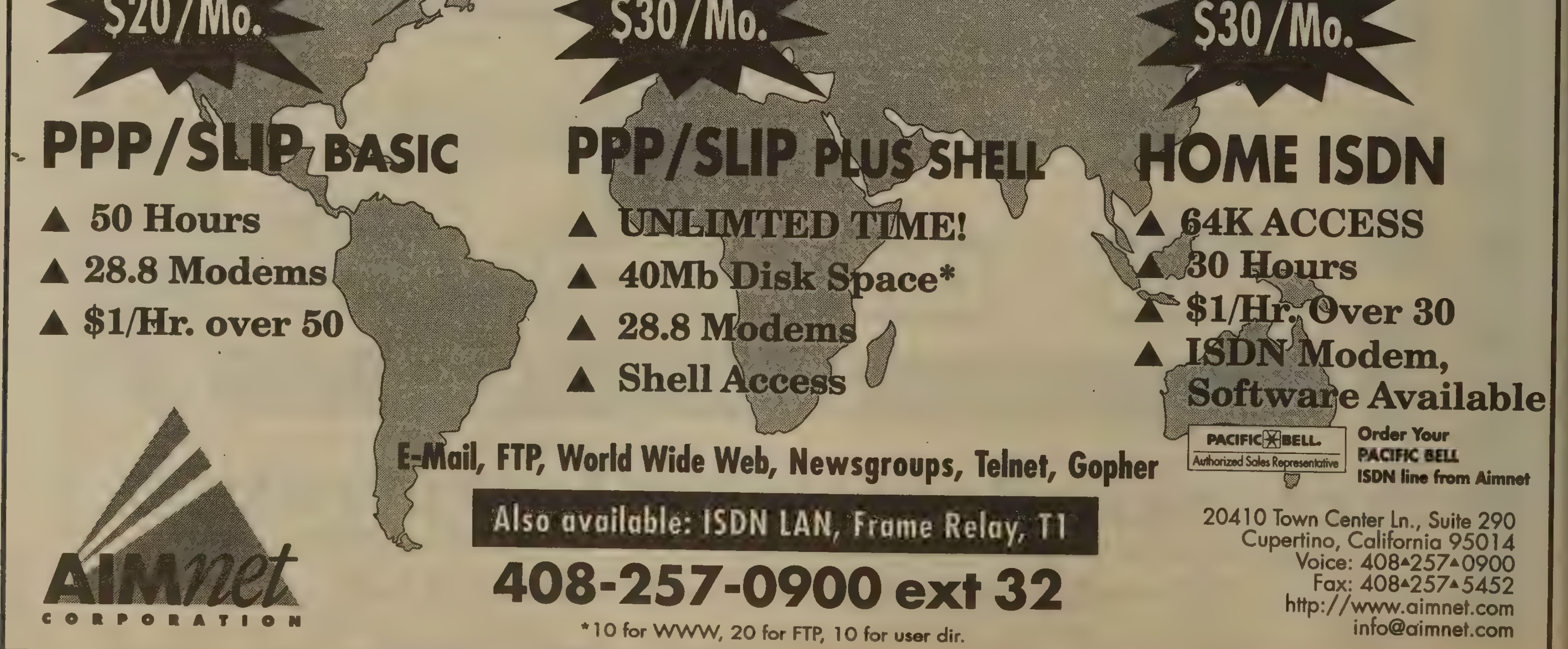
None of the technical safeguards available, such as blocking software and provider screening, are perfect, but the nice thing is they do not violate the First Amendment.

To trade the First Amendment for spurious protection against a non-problem would be bad economics indeed.

The New McCarthyism

In the 1950s, Sen. Joseph McCarthy forced numerous Americans to face his committee and answer the question: "Are you now or have you ever been a member of the Communist party?" In addition, thousands of people were blackballed by their employers out of fear that they might be so accused, either in the Senate or in the House Un-American Activities Committee.

Joe McCarthy had a high political ride while it lasted, at the direct expense of thousands of his fellow citizens, and to the detriment of the



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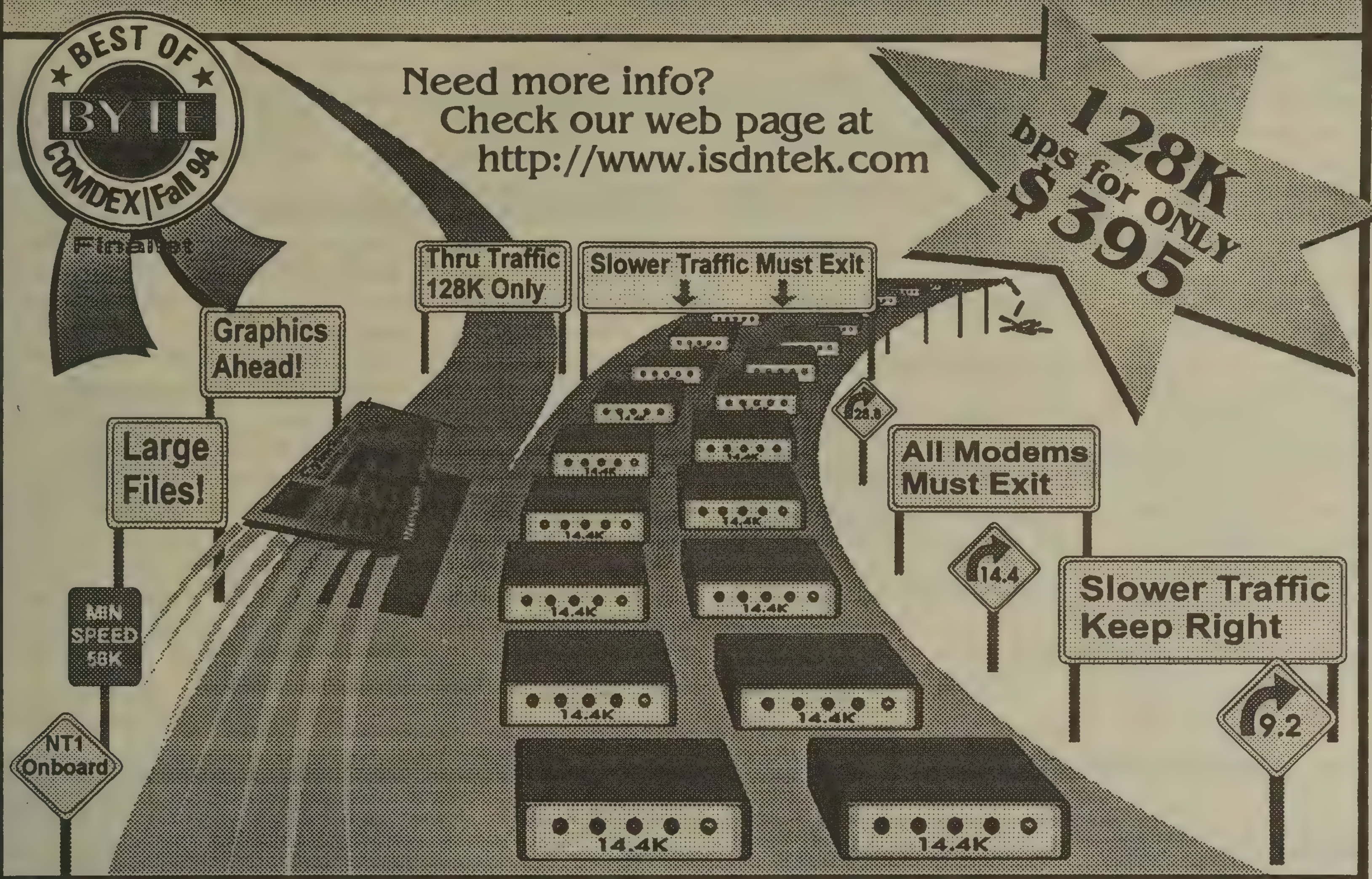
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nation at large. Eventually somebody stood up in Congress and said, “Have you no shame?”

Communism is dead, but pornography, especially child pornography, has taken its place as the political expedient of this decade. Very few people actually were Communists in the 1950s, but even fewer wanted to defend anybody so accused, for fear of being tarred with the same brush. Child pornography is almost nonexistent, but few people want to be seen as defending it or any kind of pornography in this age of “family values.”

> Because only a small percentage of the US population is currently on the Internet, and those who are are widely perceived as apolitical elitist white male techno-nerd pornographers, many politicians consider the Internet to be a safe target for political grandstanding.

Lots of politicians are riding high on this “anti-pornography” thing. If they continue to do so it will be at the expense of hundreds of small ISPs closing (which will make Internet access harder to get), of a general dumbing-down of Internet traffic (thus reducing the value of the Internet to those who can get it), and to the increased expense of even the larger Internet access providers (thus raising the cost of the Internet to those who can still get it). The greater expense will be to the economic viability of this country, and to its social fabric. The greatest expense will be to the legal and social tradition of free speech [illegible] this country and in the world.

We call on someone to stand up in the US House of Representatives and say “This has gone far enough!”

What You Can Do

The most immediate effect of the Senate vote of 14 June has been to make online use of the so-called seven dirty words a sort of civic duty, judging by their suddenly increased use in otherwise mild-mannered messages on Usenet and the Internet. This is a sort of solidarity, and it will make us all feel a damn sight better, which is good, but it’s not enough.

We recommend that everyone concerned about S.314 and the issues it represents call or write your Representative or Senator. They work for you; you elect them; you pay their salary. Senator Exon has decided to retire, but others will be up for reelection. Call or write Vice President Al Gore and President Bill Clinton, as well.

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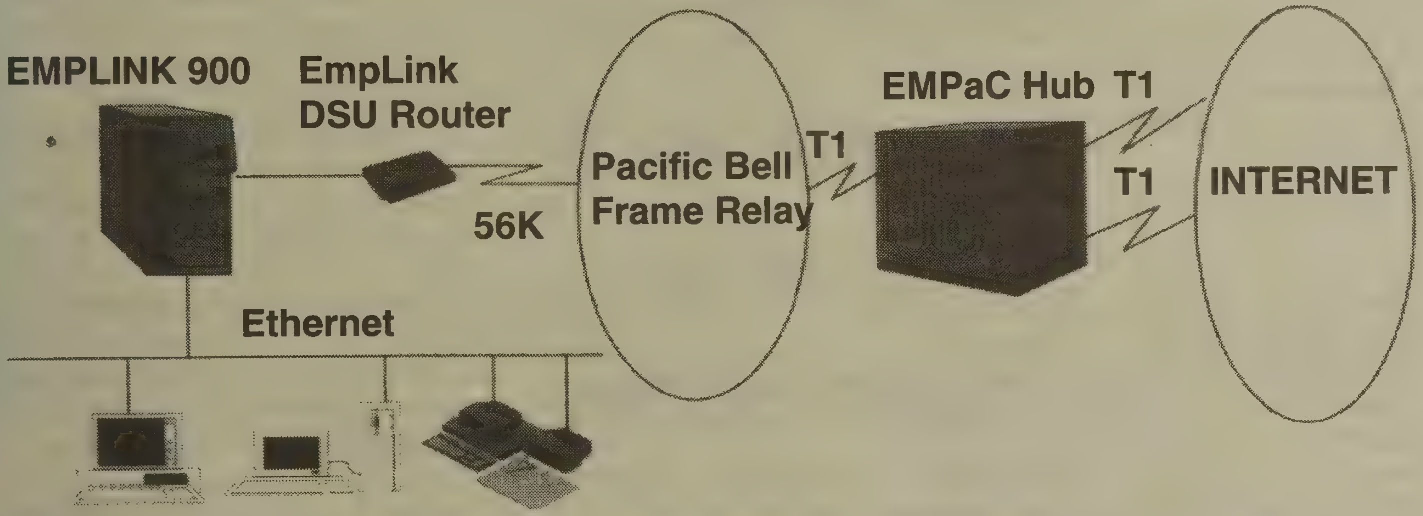

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Please be polite, specific, informative, and brief. Do not send insults or the seven dirty words. They won't do any good, and if CDA becomes law they soon will be illegal.

The offices of the President and Vice President are reachable online as:

president@whitehouse.gov
vice.president@whitehouse.gov

Sen. Exon does not have an electronic mail address, although many other Congress members do. For example, the cosponsor of S.314 is Senator Slade Gorton, Wash., *senator_gorton@gorton.senate.gov* .

Most Senators can be reached by paper mail as:

Senator Real Name, State
US Senate
Washington, DC 20510

Most House members can be reached by paper mail as:

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All can be reached through the US Capitol switchboard, (202)224-3121. See the URL already cited, URL:*http://www.zilker.net/senate/s314.html* for more specific paper addresses, telephone numbers, and electronic mail addresses, or get them directly from the federal government:

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If this bill becomes law, you will be liable for up to $100,000 in fines and up to two years in jail for making an "indecent" comment.

If you are not a US citizen, don't let that stop you. There's no reason you can't contact US elected officials and express your concern over the international effects of CDA. International concern about US domestic laws is sufficiently rare that you may well get their attention.

What To Send

The simplest statement is often the most effective, especially on the telephone. "As one of your constituents, I oppose the Communications Decency Act of 1995," will do very well.

That one sentence alone will address the most basic problem of education we face. Because only a small percentage of the US population is currently on the Internet, and those who are are widely perceived as apolitical elitist white male techno-nerd pornographers, many politicians consider the Internet to be a safe target for political grandstanding. Most politicians don't understand the value of the Internet, so they don't care how much they damage it. But values every politician understands are public opinion and votes. Congress needs to know that Internet users value this technology and are willing to say so, articulately, quickly, and frequently.

You might also want to consider writing a letter to or meeting with your elected representatives or their staff to address the other problem of education regarding elected officials and the Internet. Sen. Exon remarked on the Senate floor: "My generation—I have not figured out how to use the VCR yet. I have a blinking 12 I do not know how to get rid of." He is not unusual among elected representatives, most of whom have little or no understanding of recent technology, much less of the Internet. Help teach them.

Finally, don't assume this bill is the last you will hear of this issue. Each US state regulates telecommunications to some extent, and if you are not in the US, you are not immune: remember Hong Kong.

Act now or let the future be: "Do you now or have you ever made, transmitted, or otherwise made available any comment, request, suggestions, proposal, image, or other communication which is obscene, lewd, lascivious, filthy, or indecent?" ■

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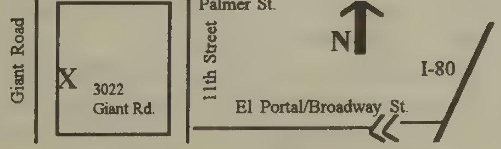

ONLINE SERVICES • BY BILL GRAM-REEFER

Microsoft Network

Never Mind The Lawyers—Look At The Features

Red-herring issues often confuse the computer industry. These days, there are plenty of false trails and meaningless subplots that really aren't relevant to the outcome of the story—like the stolen money in Hitchcock's *Psycho*.

The flap over whether or not the Justice Department will make Microsoft remove the Microsoft Network (MSN) from its much-anticipated Windows 95 operating system is one such McGuffin. The only real plot line behind MSN worth discussing at this point is the Windows 95 technology story that will truly thrill audiences. Yet, Microsoft's powerful PR machine has been unable to get this hot technology message heard over the din created by the clanking legal and business issues that have dominated the headlines. It's as if *Notorious* was "really" about Cary Grant finding the secret ingredient for Nazi bombs and not the love story involving Ingrid Bergman.

Birth Of The Connectoids

Actually, the MSN-bundling issue is the tail wagging the dog. The innovation found in Windows 95 is the central plot, particularly the ease with which users will be able to configure their systems to access not only MSN, but any address or uniform resource locator (URL) on their networks or the Internet with the click of a mouse. That Microsoft has so thoroughly integrated access to MSN within Windows 95 says volumes more for the power of the operating system compared to the myopic competitive challenges that distract the legions of professional industry analysts.

In many respects, navigating MSN will be no different than navigating other areas of Windows 95. In fact, MSN is an extension of the new Explorer feature that provides a new way to look at the desktop. Most importantly, Windows 95 supports object linking and embedding (OLE), which enables users to create "shortcuts" to remote network addresses. These connectoids provide quick access to URLs that can be referred to from within a variety of word processing, spreadsheet, or other kinds of documents, or as icons on application menu bars. This allows a user to navigate the Internet as easily as navigating the desktop.

These connectoids are independent of provider and can point to anywhere, and will. There is no incentive to limit competition in this area. Pending Justice Department decisions concerning the right of Microsoft to use alleged anticompetitive means to distribute MSN miss the point. This integrated functionality will become a major part of your use of Windows 95 whether or not Microsoft bundles MSN with the operating system.

And it's only a matter of time before America Online, CompuServe, Prodigy, and Big Bubba's Online Emporium and BBS begin broadcasting their own freeware connectoids over the Internet so users can incorporate them as well into their everyday computing.

QVC also has signed on, and in mid-July was pre-selling **over ten thousand copies** of Win 95 on air per day at a **whopping $89.99 plus** shipping and handling.

Offerings A Go-Go

MSN, after all, is just a newborn online service that doesn't even yet provide access to the Internet. But what a cute baby with so much promise...

A flock of computer industry vendors and content and service providers have already signed on with Microsoft as godparents, to be present at creation, and to give MSN some needed pizzazz from the get-go. MSN subscribers will be able to access vendors like Borland, Dell, Gateway 2000, HP, and Lotus.

In addition to NBC, other content providers will include American Greetings, C-SPAN, Hollywood Online, Kodalux, the ubiquitous Starwave, Women's Wire, and the stable of Ziff-Davis titles. Starwave, for instance, will host Outdoor Online and ESPNET SportsZone, a multimedia information service where fans can get news and interactive profiles or share opinions about their favorite teams online. Jazz Central will provide live-performance schedules, ticket information, and forums where musicians and fans can interact. QVC also has signed on, and in mid-July was pre-selling over ten thousand copies of Win 95 on air per day at a whopping $89.99 plus shipping and handling.

Special independent content providers will include CNBC, Dun & Bradstreet, *Entrepreneur* magazine, GE Information Services, the Small Business Administration, LEXIS-NEXIS, TRW, and even the United Parcel Service. MSN believes these, plus other providers, will form a core group of services that together will be extremely attractive to small-office business

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Online Services *continued...*

users who can use MSN as a remote office.

In addition to its wealth of news coverage, as part of the alliance with NBC, Microsoft and the TV giant will develop integrated products that combine online, CD-ROM, and interactive TV products that enable users to move from one medium to another easily and quickly.

Other strategic business relationships include cable giant TCI's acquisition of 20% of MSN. This union preps the way toward mass-audience use of MSN due to TCI's large potential subscriber base and high bandwidth. Meanwhile, Microsoft has formed relationships with UUNET and licensed Mosaic technology from Spyglass and NCSA. This certainly promises a dedicated, global, TCP/IP network that will include Web and other Internet services, for sure. But not now, maybe by year's end with v1.0.5.

Underscoring this potential global reach, over seventy European providers have been lined up to participate on MSN including Club Med (France), Great Universal Stores (UK) SAP AG (Germany), Riverland Publications (Belgium), and CD Select (Holland), among others. InterGreetings (UK) will provide specialized greetings delivered as email. UK-based Loot will provide extensive classified advertising services; *La Tribune Desfosses*, a leading French financial daily newspaper, will offer stock and financial data, while *Le Nouvel Observateur*, a French weekly, will introduce online chess as well as an online astrology forum.

Even if its strategy of bundling MSN with Windows 95 is thwarted by the Justice Department, Microsoft will offer a wide array of one-click links to MSN to be embedded within new releases of the company's own software titles. Connectoids to MSN will begin appearing in Microsoft titles including Money, Works, Publisher, and yet-to-be released titles on topics that require frequent updates like Microsoft's Complete Baseball.

Without a doubt, other savvy publishers are also working on connectoids so customers can click and connect. But the beauty of this Win 95 capability is that the one-click connection on the menu bar in Quicken doesn't necessarily have to be a connection to MSN; it could be a built-in pointer to Intuit's own Web site independent of MSN. This will hugely enhance publishers' ability to interact with customers to add value and extend application functionality.

What About Everybody Else?

Perhaps, ultimately, there really is no way to fully escape the gaping maw of Microsoft's hegemony of the computer industry at this time. But Rome was not built in a day nor did it collapse overnight.

Individual tastes being what they are, MSN will certainly not be home to all; not soon, anyway. So expect America Online, Prodigy, and CompuServe to continue to flourish, if not accelerate their respective growth. Once introduced to the online market, millions of users who decide MSN is just not for them will literally fall over the transom into the folds of the existing online services. It could happen. ■

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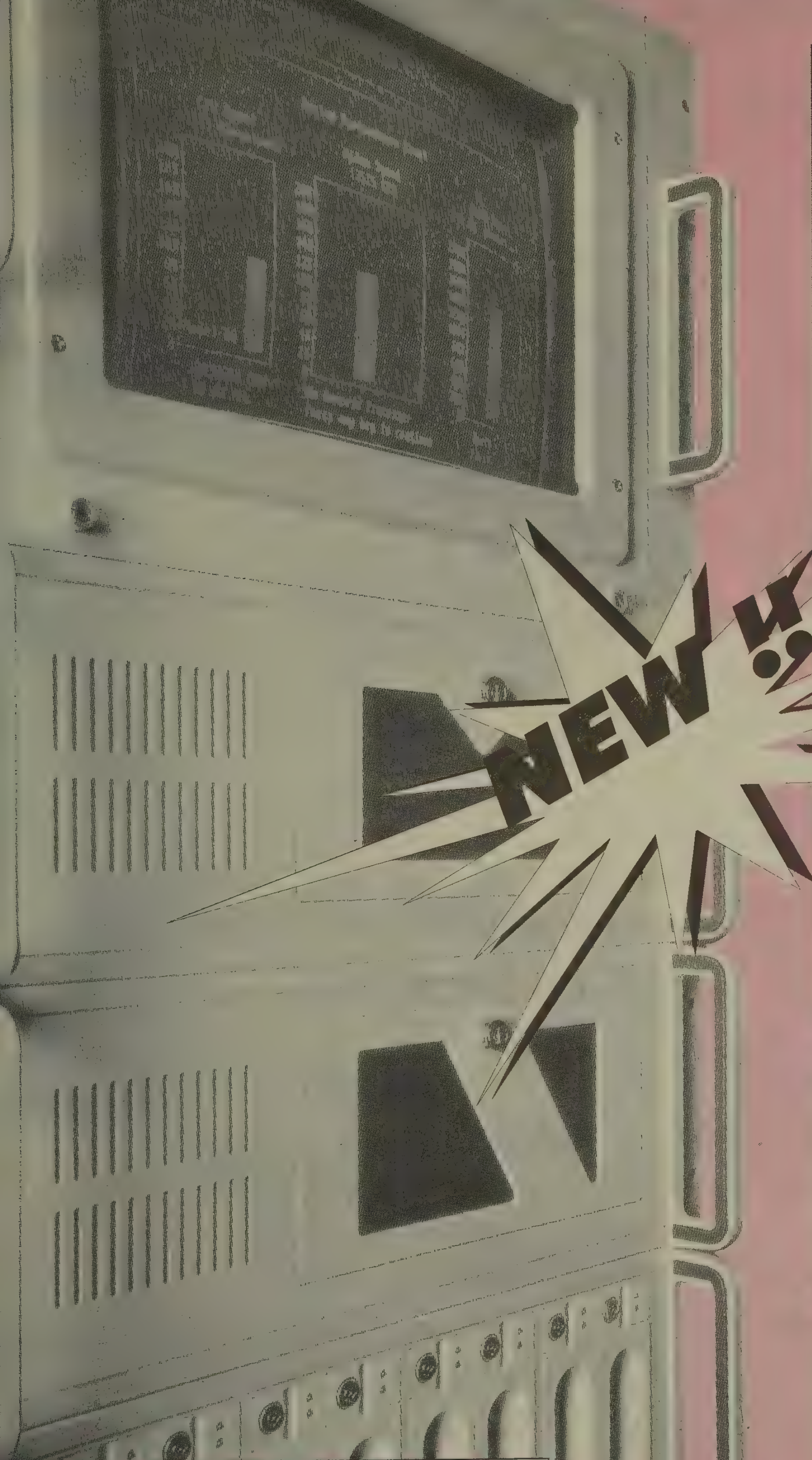

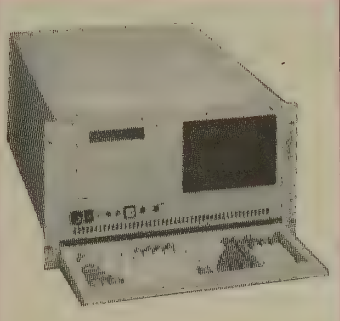

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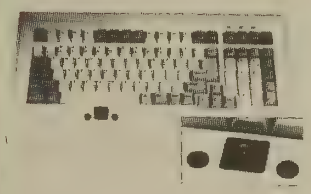

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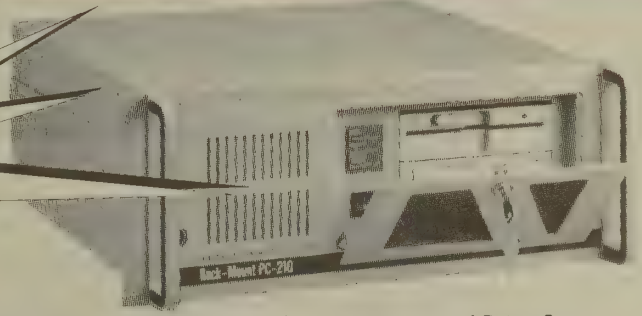

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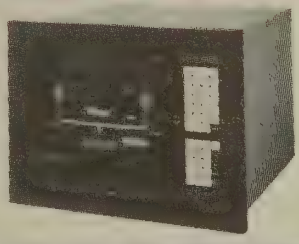

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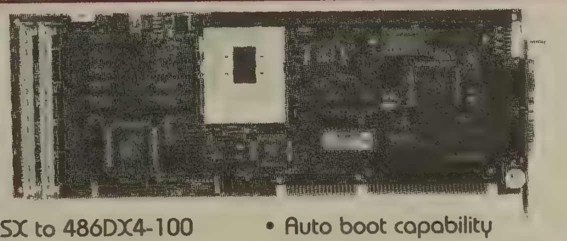

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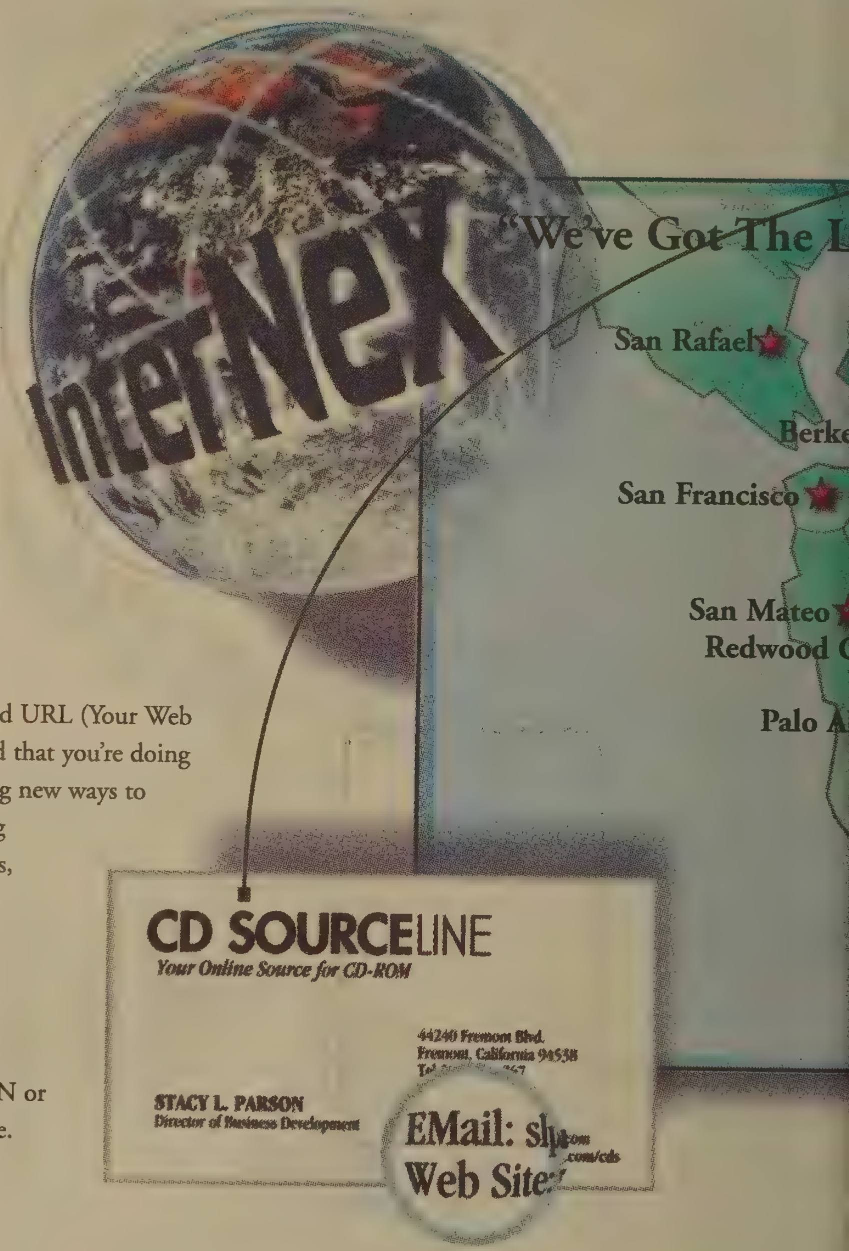
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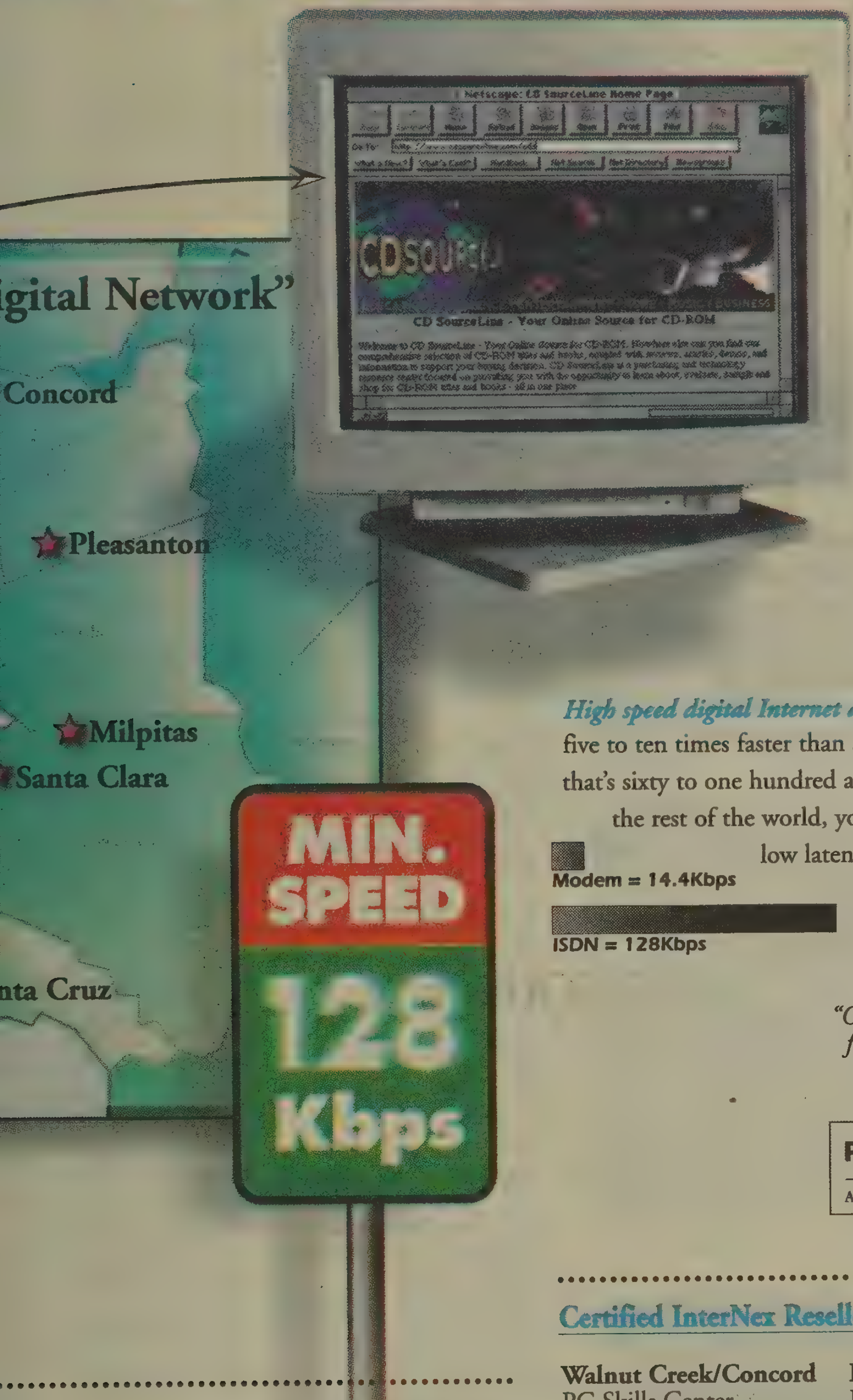

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Looking for beaches to Netsurf? Herewith we present an assortment of cool, interesting, and informative Web sites to tickle your fancy and stimulate your mind.

BUSINESS

Adult CD-ROM Outlet *http://www.webcom.com/~dml/nubody/nubody.html* The best in mail order Adult CD-ROMs with pictures and free catalog. 18+ only. [Exp. #142.]

Advanced Computer Products *http://www.liberty.com/home/traveller* The home of Advanced Computer Products and the online swapmeet! Also home to ACP Components. [Exp. #145.]

Agora Digital *http://www.agora.net/* Online service for new and traditional media, including searchable database of industry talent. [Exp. #143.]

Air Brokers International *http://www.aimnet.com/~airbrokr* Visit places around the world, online world travel newsletter, circle the globe, Asia, Pacific. [Exp. #145.]

Aircraft Spruce & Specialty Co. *http://www.aircraft-spruce.com* Aircraft Spruce is the premiere distributor of aviation supplies for certificated and home-built aircraft. [Exp. #145.]

Albin Engineering Services, Inc. *http://www.hooked.net/users/aesi/* Albin Engineering Services, a leading placement firm, has several openings for SW Engineers. [Exp. #144.]

Alps Electric *http://www.alpsusa.com/index.html* Photographs and complete specs for the most popular products of this computer peripheral manufacturer. [Exp. #145.]

Altera Corporation *http://www.altera.com* Company/product information, job opportunities for Altera (NASDAQ: ALTR), leader in high-performance programmable logic devices and CAE tools. [Exp. #142.]

AP Research *http://www.apresearch.com* Market research reports and consulting services for PC cards (PCMCIA). [Exp. #141.]

Apartment Locators, Inc. *http://www.homefair.com/apt.aptla.html* Apartment hunting in LA and Orange County areas. [Exp. #144.]

Around-The-World Airfares & Adventures *http://www.highadv.com* High Adventure Travel's catalog of discount around-the-world airfares, Himalayan treks, African Safaris, etc. [Exp. #143.]

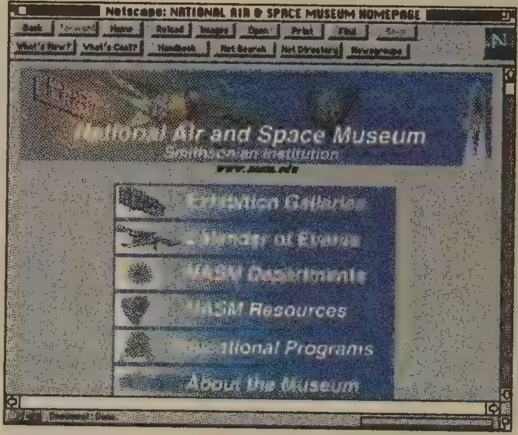
Bill's House Of Financial Independence *http://www.vpm.com/selfhelp* Providing business opportunities for the beginner and seasoned pro. For as little as $20. [Exp. #142.]

BookNet *http://www.armory.com/~timeline/SCbooks.html* Santa Cruz County bookstore catalog. [Exp. #140.]

Braxton Indexing's Home Page *http://www.thebeach.com/bus/braxton/* Publisher of indexes in legal, scientific, and research areas. [Exp. #145.]

Cadkey Developer's Network *http://www.cadkey.com* Makes available the Software Development Kit to Cadkey's Strategic Development Partners. [Exp. #145.]

California Computer Expo '95 *http://www.qualcomm.com/users/gnash/cce.html* Largest consumer computer show on West Coast. August 17–20, San Diego Convention Center. 1-800-573-3247. [Exp. #143.]


Netscape: NATIONAL AIR & SPACE MUSEUM HOMEPAGE
Back
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Home
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Images
Open
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Stop
What's New?
What's Cool?
Handbook
Net Search
Net Directory
Newsgroups
National Air and Space Museum
Smithsonian Institution
Exhibition Galleries
NASM Departments
NASM Resources
Educational Programs
About the Museum
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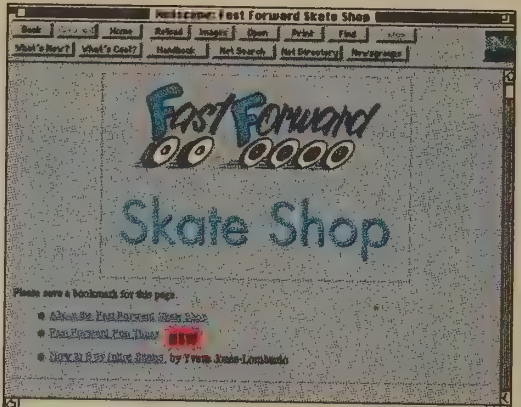
http://www. nasm.edu


Netscape: Fast Forward Skate Shop
Back
Forward
Home
Reload
Images
Open
Print
Find
Stop
What's New?
What's Cool?
Handbook
Net Search
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Newsgroups
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NEW
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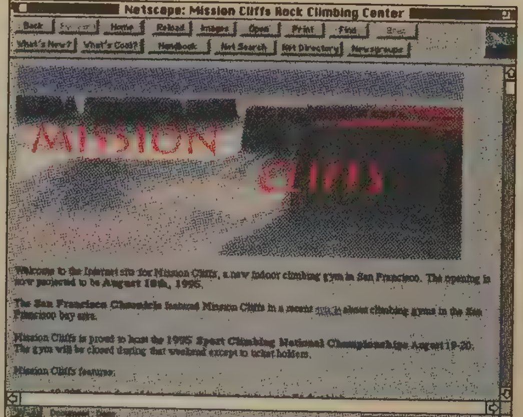
Netscape: Mission Cliffs Rock Climbing Center
Back
Forward
Home
Reload
Images
Open
Print
Find
Stop
What's New?
What's Cool?
Handbook
Net Search
Net Directory
Newsgroups
MISSION
CLIFFS
Document: Done.

Welcome to the Internet site for Mission Cliffs, a new indoor climbing gym in San Francisco. The opening is now projected to be August 18th, 1995.

The San Francisco Chronicle featured Mission Cliffs in a recent article about climbing gyms in the San Francisco bay area.

Mission Cliffs is proud to host the 1995 Sport Climbing National Championships August 19-20. The gym will be closed during that weekend except to ticket holders.

Mission Cliffs features:

http:// www.mission-cliffs.

CD Source *http://www.cdsourceline.com/cds* An online resource center for CD-ROM and multimedia information. The site utilizes public key encryption for secure transactions. [Exp. #145.]

Center For Electronic Art *http://www.cea.edu/* Discover the Artists' Exhibition and access up-to-the-minute information about classes, schedules, events. [Exp. #145.]

ChiPants *http://www.aonet.com/chipants/* ChiPants, the comfortable and intelligent pants for men and women, are now available on the World Wide Web. You can also email requests and questions to *chi@nbn.com*. [Exp. #145.]

Compuforms Co. *http://www.cpfc.com/compuforms* Electronic forms, continuous forms, labels, checks, and downloadable artwork. [Exp. #144.]

Credi-Call *http://branch.com:1080/cc/cc.htm* Use your credit card as discount calling card. Up to 90% savings on long distance. [Exp. #143.]

CyberNautix, Inc. *http://www.community.net/~nautix/* UNIX and Internet technical services firm. System management, training, and custom services described. [Exp. #143.]

Cyboutique *http://www.romantasy.com* A unique, interactive crossroads for exploring issues, ideas, and products to enhance sexual well-being and encourage intimacy. [Exp. #145.]

Cyno Technologies *http://www.cyno.com/cyno/* Cyno Technologies, Inc. provides computer user authentication systems, including solutions for enhanced remote access security. [Exp. #142.]

Digital Zone *http://www2.uplex.net/dzone/* Resource for buyers to contact vendors in the printing, advertising, service bureaus, and photography business. [Exp. #145.]

Easy Resume *http://www.dnai.com/~lji* Free resume outline and sample resume for software developers. [Exp. #140.]

Fast Forward Skate Shop *http://www.fast-forward.com/* Largest distributor of inline skates and accessories. Online guide to buying inline skates. [Exp. #145.]

FaxBox Network *http://voyager.via.net/netbiz/faxbox.html* How to have your own fax-on-demand box and make money. [Exp. #142.]

Furnituremaker And Design *http://www.channel1.com/users/postma* Steve Postma Furnituremaker and Design specializing in custom veneer and curved furniture. [Exp. #144.]

Geoworks Home Page *http://www.geoworks.com* Information about Geoworks, a supplier of operating system software and applications for the emerging Consumer Computing Device market. [Exp. #145.]

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The Parapsychology Forum
- Online Tarot Reading, Free
- Forums and News

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- World Wide Cruise Intinerary Online

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Web Page Listings *continued...*

Gold Mountain Land *http://www.aimnet.com/~ayl/antelope.htm* Land investment opportunities with prices starting at 30¢ per square foot. [Exp. #145.]

Great Fax Cover Sheet Co. *http://emporium.turnpike.net/W/wortB/welcome.html* Unique products at great prices. Something for everyone even if you don't fax. [Exp. #145.]

homepage.html *http://www.hooked.net:80/users/tpitre/homepage.html* Personal page for Pitre and MSRI, Inc. [Exp. #141.]

Hotel Emeraude Plage *http://www.well.com/user/frigate* Information on the Hotel Emeraude Plage on St. Bart's in the French West Indies. [Exp. #145.]

iambic Software *http://www.iambic.com/iambic* Software for the Newton MessagePad. Contests, tips, and links to other Newton-related areas. [Exp. #145.]

Immigration And Visas *http://www.schulzlaw.com/~mschulz* Law offices of C. Matthew Schulz. Information on US visas and employment-based immigration. [Exp. #144.]

index.html *http://www.manual3.com/manual3* Manual 3, Inc. is a 13-year-old technical writing firm serving the technology industry. [Exp. #140.]

Intelligent Media *http://smartworld.com/intmedia* Full-service interactive multimedia production company, service bureau. [Exp. #141.]

Investigative Resources *http://www.lainet.com/~factfind* The online brochure of Investigative Resources International, a full service southern California investigative agency. [Exp. #145.]

Kaua'i Exotix *http://planet-hawaii.com/~exotix/* A small tropical flower business in Kaua'i doing all of our business via the Internet. [Exp. #144.]

LinkStor Home Page *http://www.linkstor.com* PC network and storage reseller in Silicon Valley. [Exp. #143.]

LucasArts *http://www.lucasarts.com* The Web site for LucasArts Entertainment, developer, and publisher of interactive entertainment and educational software. [Exp. #145.]

Marine Jewelry By Robert Straight *http://www.stw.com/rls/rls.htm* Ocean life rendered in fine gold jewelry. [Exp. #142.]

Midnight Special Bookstore Home Page *http://msbooks.com/msbooks* Midnight Special's motto is taken from Bertolt Brecht: "Hungry man, reach for the book: It is a weapon." [Exp. #141.]

Mind Logic *http://www.xmission.com/~wwwads/mind/logic.html* CD-ROM disks, hardware, and video gear at wholesale and retail prices. Worldwide mail order. Freebies too! [Exp. #145.]

Mind Science Research Institute, Inc. *http://www.he.tdl.com/~msri* Delivers management and technology training for the lifelong learner. [Exp. #145.]

Mobile Access *http://www.aimnet.com/~ayl/900.htm* Learn all about investing in the lucrative 900 telephone business and what it has to offer you. [Exp. #145.]

Mole-Richardson *http://www.mole.com* Hollywood lighting manufacturer, rental company, expendables store movie memorabilia store [Exp. #145.]

Natural World *http://tlm.tlm.net/natwld.html* Natural World makes 100% non-toxic, all-natural, chemical-free products for cleaning, infant care, nutrition, and pet care. [Exp. #143.]

NetCity *http://www.netcity.com/* An electronic metropolis offering online shopping, personal and professional services, auto center, farmer's market, and entertainment. [Exp. #145.]

New Wave Culture Plaza, Inc. *http://www.rahul.net/newwave/newwave.html* A mail order company dedicated to Chinese culture. Chinese CDs, LDs, CD-ROMs... [Exp. #140.]

Novell Service & Support *http://www.aimnet.com/~yungi/lansol.html* Novell network specialists—CNE. We offer Novell-authorized network installation, service, and support. [Exp. #143.]

NTI Of California *http://www.net101.com/nti/* Performance, quality, and value with California's premiere long distance service for businesses and residents. [Exp. #145.]

Online Islamic Bookstore *http://www.sharaaz.com* Quality books, CD-ROMs, tapes, software on Islam. View screenshots and descriptions of products. Order online. [Exp. #143.]

Palookaville Hats *http://www.primenet.com/~hanibal/hat.html* Cool hats for the Global Village Idiot in all of us. [Exp. #141.]

PCTravel *http://www.pctravel.com* or *http://www.nando.net/pctravel.html* Real-time online air reservation and ticketing service with encryption and free overnight delivery of tickets. [Exp. #143.]

PhoenixWeb *http://www.ptltd.com* BIOS, plug and play SW, PCMCIA SW, Eclipse SW for desktop, portable, and hand-held PCs. [Exp. #140.]

Photo Restoration, Retouching, & Scanning Service *http://www.wp.com/PhotoRestoration* Highest quality and lowest prices for digital photo restorations. Quick turnaround, too. [Exp. #145.]

Rational Data Systems *http://www.rds.com* Just the basics so far, including employment and WWW contracting opportunities. Fancier stuff to follow. [Exp. #144.]

Regent Press *http://www.sirius.com/~regent* A printer in Berkeley and publisher of *The Oracle* (Facsimile Edition) and *The Fringe* Series. [Exp. #144.]

Robert Lee Entertainment (RLE) *http://www.rle.com/~rle/index.htm* RLE is an independent film, video, and WWW page production company. [Exp. #144.]

Salsa Express *http://www.stw.com/se/se.htm* Southwestern culinary catalog. One-stop shopping for your salsa and hot sauce needs. [Exp. #142.]

Secrets Of Home Theater And High Fidelity *http://www.sdinfo.com/* Electronic magazine on home theater and high fidelity, with reviews of equipment, feature articles, press releases, etc. [Exp. #145.]

Sextant *http://mind.net/wsirota/sextant/sextant.html* Distribution site for Sextant, shareware program that presents an environment for editing and using Netscape Navigator's bookmarks. [Exp. #145.]

Software Technology Service *ftp://ftp.crl.com/ftp/users/ro/sts/StsWWW/homepage.html* Software and electronic analysis, design, and engineering. Specializing in unusual languages, systems, projects, and prototypes. [Exp. #140.]

Solomon Software *http://www.solomon.com/* Solomon's home page offers a single point of communications to resources with in Solomon Software, a leading accounting software developer. [Exp. #145.]

Solutions Seminars *http://www.sol-sems.com* Seminars for technical communications specialists in the development of technical information products, marketing materials, technical training materials. [Exp. #145.]

Songwriting Consultants, Ltd. *http://www.earthlink.net/~songmd/* Hit songwriter Molly-Ann Leikin helps good songwriters become hit songwriters. Check out her Songwriter's Collaboration Network. [Exp. #144.]

Southwest Airlines *http://www.iflyswa.com/* Complete flight and fare info in a very easy-to-use format; make reservations online. [Exp. #145.]

Stop Crime, Become A Tough Target *http://www.catalog.com/borelent* Personal protection devices. Stun guns, pepper sprays, alarms, crime prevention reports, and much more. [Exp. #145.]

Symmetric Technology *http://www.symmetric.com* Computer design, software development, systems, and networks primarily for Microsoft Windows and Windows NT Novell IBM-compatible computer systems. [Exp. #140.]

Visionware Home Page *http://www.visionware.com/* PC/UNIX connectivity products: PC X-Servers, terminal emulators, ODBC solutions, and free software demos! [Exp. #140.]

Walnut Creek CD-ROM *http://www.cdrom.com* Publisher of over 50 CD-ROM titles and host of the busiest ftp site on the Internet. [Exp. #141.]

Warp California, Inc. *http://www.warp.com/* Producers of Virtual Television products; site includes product demos. [Exp. #145.]

Web Books—Online Bookseller And Special Services *http://www.primenet.com/~jculp/* Online bookseller with specialties in the areas of sexuality, censorship/conspiracy, and sports. Special free services. [Exp. #142.]

World Shopping & Information Network *http://www.wsin.com* Features brilliant colorful graphics to excite and entertain. Shopping, travel, entertainment, useful resource information, more. [Exp. #145.]

WovenHearts *http://www.wovenhearts.com/* Residential assisted living. Alternative to nursing home care for older men and women. [Exp. #145.]

(x)faktor Design *http://xfaktor.com/xfaktor* (x)faktor Design specializes in traditional and electronic design implementation, including advertising, logo, publication layout, and Web page design. [Exp. #145.]

Zendex Corp. *http://www.zendex.com/* Zendex designs and manufactures microcomputer boards, systems, peripherals, and related products for the Multibus and PC Bus industry. [Exp. #145.]

BUSINESS INFORMATION

24-Hour Recorded Job Lines For The San Francisco Bay Area *http://www.webcom.com/~rmd/bayarea/joblines.html* Listing of jobline numbers. Also, pointers to other local employment resources and online job listings. [Exp. #140.]

Astro-Temp *http://voyager.via.net/netbiz/atemps.html* High-paying "temp" jobs available now by astrological sign. [Exp. #141.]

Bay Area Real Estate Network *http://www.dnai.com/~ted* An excellent resource for buyers and sellers in the Bay Area! [Exp. #140.]

BayNet Real Estate *http://www.baynet.com/re.html* The Bay Area real estate site. Enter ads for free, search through hundreds of listings. [Exp. #141.]

Consumer Mortgage Information Network *http://www.human.com/proactive.index.html* Dedicated to providing home buyers with timely and unbiased information relating to residential financing. [Exp. #145.]

Copyright Website *http://www.benedit.com* A practical Copyright resource for netizens and Webmasters. Includes audio of famous copyright infringements [Exp. #145.]

Credit Union Land *http://www.culand.com* A searchable index of credit unions you can join! [Exp. #145.]

Employment Home Page *http://www.nscnet.com/job001.htm* Dedicated to providing the best links to employment resources across the Internet. Updated daily. [Exp. #145.]

Employment Today *http://204.188.129.2/netbiz/employ.html* High-paying permanent and temporary jobs available now, plus agency listings. [Exp. #142.]

Home Owner's Page *http://www.weblink.com/homeowners/* A directory of

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486DX2-66	$1399

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- Med Tower w/UL Power Supply
- Logitech First Mouse w/Pad
- Toshiba 4X Speed IDE CD-ROM (600kb/s,190ms)
- Sound Blaster 16 Sound Card
- Amplified Stereo Speakers
- CD SOFTWARE
  - ⇨ WordPerfect 6.1 for Windows
  - ⇨ Quattro Pro 6.0 for Windows
  - ⇨ Presentation 3.0 for Windows
  - ⇨ InfoCentral 1.1 for Windows
  - ⇨ Voice Recognition
  - ⇨ Envoy Viewer 1.0 Windows
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PCMCIA
CD-ROM
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EPSON
FX870
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MULTIMEDIA PACKAGES/CD-ROMS

1) SONY 2X SPEED CD-ROM, Sound Blaster16, stereo speakers, Compton's Interactive Ency 95	$189
2) TOSHIBA 4X SPEED CD-ROM, Sound Blaster 16, stereo speakers, Compton's Interactive Ency 95	$239
Mitsumi IDE FX400 230ms 4 Speed	$149
NEC SCSI CDR 511 200ms 4 Speed	237
Panasonic EIDE LMD-574 4 Speed	149
Panaonic SCSI LMD-504 4 Speed	255
Plextor SCSI PX-63Cs 145ms 6 Speed	479
Toshiba EIDE 5302B 150ms 4 Speed	149
Toshiba SCSI 3601B 150ms 4 Speed	284
Sound Blaster 16 IDE	64
16 Bit OPTI Chipset Sound Card	54
8 Bit Sound Card	20
5W/25W/80W/120W Speakers	14/29/39/54

MOTHERBOARDS

INTEL Pentium 90/75, PCI IDE Hi-Speed I/O Built-In Triton Chipset, No CPU	$225
BioTec Pentium 120/100/90/75, PCI, 256K Cache, Triton Chipset, No CPU	169
BioTec Pentium 100/90/75, PCI, IDE High Speed I/O Built-In, UMC Chipset, No CPU	170
BioTec 486, PCI IDE High Speed I/O, 256K 486 DX4-100/DX2-80/66	215/210/205
486DX4-100, VLB AMD CPU 256K	169
486DX2-80, VLB AMD CPU 256K	164
486DX2-66, VLB AMD CPU 256K	159
386DX-40, 128K	75
486SX-25, VLB INTEL CPU NC	129
486SLC-66, VLB IBM CPU Math 128K	130

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WESTERN DIGITAL (3 yr. warranty)	
850 MB/1.2 GB IDE	$189/279
1.6 GB EIDE 9ms	479

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Teac 1.44 MB	28
Teac Dual Floppy 1.2/1.44	84

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K-Well AT/IO (2S/2P)	19
K-Well VLB IDE w/2 16550 UART/1P/1G	39
K-Well ISA IDE w/2 16550 UART/1P/1G	19
Promise 2300 VLB EIDE w/2 16550 UART/1P/1G	49
ADAPTEC	
2842 VLB SCSI w/kit	$199
2940W (Wide SCSI) w/cable	240
2940 PCI w/cable	189
UltraStor SCSI VLB	159
Qlogic ISA/FL, 7 SCSI	122
Qlogic VESA/FL, 7 SCSI	180
Qlogic PCI 7 SCSI	110

KEYBOARDS

BTC 101 Keyboard	$16
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Focus FK8000 w/calculator	33
Focus FK9000 Programmable	45

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9600 Fax/2400 Modem	$32
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14,400 Fax/14,400 Modem Ext	65
14.4 Data/Fax w/Voice Mail Int	55
14.4 Data/Fax w/Voice Mail Ext	75
28.8 Data/14.4 Fax V.34 Modem Int	116
28.8 Data/14.4 Fax V.34 Modem Ext	135

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14" SVGA 1024x768 NI	208
15" ADI 4GP 1280x1024 .28	360
15" Mag DX15FE 1280x1024 .28	330
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F5501W 17" 1280x1024 .28	$864
T5601W 17" 1280x1024 .25	1372
F560IW 17" 1280x1024 .31	1146
F760IW 21" 1280x1024 .31	1788
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449E 15" FST 1280x1024 .28 dp	$419
447L 17" FST 1280x1024 .28 dp	679
447X 17" FST 1280x1024 .26 dp	959
445X 21" FST 1600x1280 .26 dp	2279
VIEWSONIC	
6E 14" 1024x768 .28 NI	$275
15ES 15" 1024x768 .28 NI, Mac II	345
17G 17" 1280x1024 .28 NI	749
20 20" 1600x1280 .28	1449
21PS 21" 1600x1280 .26 NI, Mac II	1668

TAPE BACK-UP

COLORADO	
DJ-35 350 MB Internal	$129
DJ-25 700 MB Internal	179
T1000 800 MB Internal w/Tape	194
DJ-50 1.3 GB Internal w/Tape	274
JT-20 250 MB External TRAKKER	219
JT-35 350 MB External TRAKKER	257
PT-10 1 GB Power Tape SCSI II Internal	549

VIDEO CARDS

ATI	
Winturbo 64 PCI 2/4MB VRAM	$228/392
DIAMOND	
Stealth 64 Video PCI w/1/2 MB DRAM	$115/155
Stealth 64 Video PCI w/2/4 MB VRAM	243/369
Stealth 64 VLB w/1/2 MB DRAM	119/159
Stealth 64 VLB w/2/4 MB VRAM	249/379
NUMBER NINE	
GXE 64 Pro PCI w/2/4 MB VRAM	$314/479
GXE 64 PCI w/1/2 MB DRAM	159/219
IMAGE 128-PCI w/4 MB VRAM	799
IMAGE 128-1600 PCI w/4 MB VRAM	1047
CIRRUS LOGIC	
5428 VLB w/1 MB	$65
5434 PCI w/1/2 MB	85/130

NETWORKING

MADGE SMART 16 Tokenring	$339
Tokenring Patch Cable	29
INTEL EtherExpress 16 Pro TP	69
3COM	
3C509 ELINK III Coax/5 Pack	$95/449
3C509 ELINK III TP/5 Pack	85/405
3C509 ELINK III Combo/5 Pack	130/528
Ethernet 10Base-T Hub	
3Com Link Builder 12 Ports	329
ALLIED TELESYN	
CentreCom AT-3124TR 24 Ports	$1299
CentreCom AT-3148 48 Ports	1959
BOCA Ben-210 8 Ports	129
NOVELL NETWARE (OEM)	
Personal Netware 2 User	$69
V3.12 5/10/25/50 User	538/1158/1688/2228
V4.01 5/10/25/50 User	768/1458/2058/2678

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Mini Tower w/230W PS	$35
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Full Tower w/250W PS	75
Baby AT w/230W PS	40

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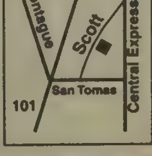

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Web Page Listings *continued...*

contractors, plumbers, electricians, gardeners, and other professionals offering services to home owners. [Exp. #144.]

Homes & Open Houses *http://openhouses.com* Your comprehensive source for real estate information on the Internet. [Exp. #140.]

IndustryNET *http://www.industry.net* Keeping in touch with the computer industry. Product and service information including local suppliers. [Exp. #145.]

National Center For Employee Ownership *http://www.esop.org/~nceo* Provides information on employee ownership in the US and elsewhere and lists publications and events. [Exp. #142.]

Network World *http://voyager.via.net/netbiz/network.html* The international directory of MLM and network marketing opportunities. [Exp. #141.]

Resumes Online *http://voyager.via.net/netbiz/resumes.html* The place for job seekers to tell the world market of their availability. [Exp. #141.]

Seamless Website *http://tsw.ingress.com/tsw/* Advertisements for law firms and legal services providers; law review articles and other legal information. [Exp. #140.]

Sharrow Advertising And Marketing BizInfo Resource Center *ftp://ftp.crl.com/users/ro/csharrow/homepage.html* Advertising and marketing reports and issues, mail order catalogs, ad parodies, humor and sarcasm, digital age issues, and essays. [Exp. #140.]

The Syndicate *http://www.centcon.com/~billman/syn.html* Devoted to helping those who seek financial information. Many articles, pointers to other investment information sites. [Exp. #142.]

TechExpo WWW Directory Of Hi-Tech *http://www.techexpo.com/* Directories of: science, engineering societies; technical/engineering trade magazines; high-tech firms, products, services; much more. [Exp. #145.]

Tradenet *http://voyager.via.net/netbiz/tradenet.html* The international directory of world trade opportunities and offerings. [Exp. #141.]

TravelEZ *http://www.travelez.com* TravelEZ is a comprehensive resource of travel and leisure information on the Web, from airlines to hotels. [Exp. #145.]

What's New In Travel *http://voyager.via.net/netbiz/travel.html* The place to get "freebies," info, discounts, and hot travel deals. [Exp. #141.]

ENTERTAINMENT

Access Monterey Peninsula! *http://www.mty.com* Access Monterey! features extensive information for the Monterey Peninsula and sponsors a weekly trivia contest. [Exp. #140.]

Aloha Dateline *http://www.aimnet.com/~ayl/aloha.htm* "I found love on the Aloha Dateline! It's a fun, safe, exciting way to meet!" [Exp. #145.]

Astrology By Moonlight *http://voyager.via.net/netbiz/astrol.html* Monthly personal horoscopes and astrological information. [Exp. #141.]

Athlete's Diary *http://alumni.caltech.edu/~slp/tad.html* The Athlete's Diary for Windows, Mac, and DOS—complete information and full-featured demo copies. [Exp. #140.]

ATP Tour Online *http://atptour.com* The most comprehensive tennis Web page on the Internet, with news and information about men's pro tennis. [Exp. #145.]

Awesome Music Site *http://emusic.com* Music information, superfast browsing, 40,000 album images. Tons of fun. [Exp. #145.]

Batman Forever *http://batmanforever.com* Artwork, trailers, storyboards, behind-the-scenes glimpses into the making of *Batman Forever*, and more. [Exp. #143.]

Bay Area Movie Guide *http://www.movietimes.com* Bay Area Movie Guide offers movie listings, information, reviews, links to movie company web sites, videos, sound clips, publicity photos, and general cinema information. [Exp. #144.]

Brazilian Mail *http://www.BrazilianMail.com/Brazil* The first Brazilian commercial site, art gallery, business center, newsstand, travel agency, and more. [Exp. #144.]

Buzznet Magazine *http://www.hooked.net/buzznet* An SF-based online cultural Web magazine capturing colorful, fresh images, words, and sounds constantly. [Exp. #141.]

CDworld: Largest Internet Discount Music Store *http://cdworld.com* Discount music store with over 100,000 major and independent label music CDs and videos. Ship worldwide. [Exp. #141.]

Ceolas Celtic Music Archive *http://celtic.stanford.edu/ceolas.html* Home of Celtic music on the Net, including tunes, artist profiles, sound samples, resources, etc. [Exp. #143.]

CGC Polar Sea *http://www.compumedia.com/~jef* Extensive graphics covering last summer's expedition to North Pole and latest Deep Freeze to Antarctica. [Exp. #141.]

Classic Rock All Stars *http://www.webcom.com/~gsmmedia/crastars* Members from Iron Butterfly, Rare Earth, Sugarloaf, and Spencer Davis Group present their Summer '95 Tour. [Exp. #144.]

Clocks & Time *http://glenellyn.iit.edu/~clocks/clocks/clocks.html* Over 200 pages: clock, watch collecting, repair, sundials, time standards: organizations, museums, publications, and software. [Exp. #140.]

Crystal Rain Media Entertainment *http://www.earthlink.net/~crystal* "Hip Hop Animal Rock," award winning aerobic video for children. Sound and video clips. [Exp. #144.]

Cybercize With The CyberSet *http://www.physics.sfsu.edu/grad/lwilliam/cyberset/cyberset.html* Ten fun and easy at-your-computer exercises with the CyberSet—an online comedy team. [Exp. #145.]

Cybertown *http://www.cybertown.com/cybertown* Cybertown is a 21st century off-world electronic virtual community that provides a rich mix of entertainment, information, and commerce. [Exp. #145.]

DCI *http://www.DCIexpo.com* Get the latest information on high-tech conferences and expositions like Web World, EMail World, and more. [Exp. #140.]

Discover Starving Artists *http://www.starving.com/* An interactive art gallery featuring photography and paintings, plus a tour of 19th century Paris. [Exp. #145.]

EDGE Home Page *http://www.well.com/www/edgehome* Home page of EDGE, leading interactive entertainment publisher of *EDGE* magazine and EDGE games. [Exp. #141.]

Electronic Telegraph *http://www.telegraph.co.uk* Britain's first and best online daily news source—a crossword, too. [Exp. #140.]

Endeavour Travel *http://www.anzac.com/endnb/endvr.html* Information and discount travel packages to Australia and New Zealand. [Exp. #142.]

Enterzone *http://enterzone.berkeley.edu/enterzone.html* Noncorporate, professional Web zine. *Enterzone* is a hyperzine of writing, art, and new media. [Exp. #140.]

Enzian Theater *http://magicnet.net/enzian/* Home page of Enzian Theater, film center for Central Florida: special event info, film-related links. [Exp. #141.]

Film Analyst On-Line *http://www.kaiwan.com/~stussy/taussig/film01.html* A thoughtful analysis of popular and classical movies and the impact on popular culture. [Exp. #142.]

FLASHERS *http://www.armory.com/~grape/* Daily comics by Elliot Feldman. Bring your own trenchcoat. [Exp. #142.]

Four Leaf Clover *http://204.188.129.2/netbiz/fourleaf.html* How to play the Canadian lottery and make money every month. [Exp. #142.]

Freehead Web Page *http://wl.iglou.com/ngsippel/freehead.html* New band featuring Jim Smith of the original *Ren & Stimpy Show*! Info, gig schedules, etc. [Exp. #145.]

Galaxy Entertainment Network *http://www.power.net/galaxy* Providing entertainment information, showcasing worldwide talent, business opportunities, programming, and weekly Internet funnies. [Exp. #142.]

Gigaplex *http://www.gigaplex.com/wow* A whopping arts & entertainment web magazine featuring film, TV, music, theater, books, and celebrity interviews. [Exp. #144.]

Graffiti Wall *http://www.lh.com/cgi-bin/wall* Hot tips and interesting places on the Web. Check it out or share some of the places you have found. [Exp. #140.]

Harmony Central Music Pages *http://harmony-central.mit.edu/* Resources and links for the musician, including guitar, bass, effects, MIDI, keyboards, software, and more. [Exp. #142.]

Hotel California *http://kincyb.com/* Check into the friendliest hotel in the West. Full of Internet games, 24 hrs. chat, and adult files. [Exp. #144.]

Idea Futures *http://if.arc.ab.ca/IF.shtml* Bet on 150+ science, computer, and social controversies. Won major prize for best Web site. [Exp. #145.]

Interactivist/Go Digital Online *http://www.godigital.com Go Digital Interactive Magazine*'s home page: preview of CD-ROM, additional materials, subscribe, send stuff for inclusion, etc. [Exp. #141.]

International Channel *http://www.I-channel.com* Unique multicultural, interactive, multimedia experience combining video, audio, and animation. [Exp. #145.]

International Home Exchange Network *http://www.magicnet.net/homexchange* Listings of home exchange opportunities, local cost vacation rentals, Bed & Breakfasts, "mom and pop" hotels, and more. [Exp. #143.]

KBBS Online *http://kbbs.kbbsnet.com* Interesting Web site links, WWW business marketing info, online service info. [Exp. #142.]

Kerry's Connection *http://www.crl.com/~zallar/index.html* Comedy Impressions—live and voice mail, QB Experience musical group, SRV School of Performing Arts. [Exp. #142.]

@LA *http://emporium.turnpike.net/A/atLA/* The most complete cyberspace guide to sites with a realspace presence in the LA area. [Exp. #144.]

LAcon III *http://sundry.hsc.usc.edu/lacon3/* Web site for the World Science Fiction Convention coming to Anaheim in 1996. [Exp. #144.]

Links From The Underground *http://raptor.swarthmore.edu/jahall/* Original writings, anecdotes, and links with commentary convey a Net and world view on the Web. Coordinated craziness! [Exp. #140.]

Links Golf By Bengtson Company *http://www.well.com/www/bengtson/golf.html* Northern CA golf course directories, travel lodging, dining information, golf product information, and photos. [Exp. #142.]

Loser Love Songs *http://www.slip.net/~mbutler/index.html* Home of San Francisco power-pop band the Flex-a-Pleasers. Contains audio of every song in the catalog, more. [Exp. #143.]

Magnolia Jazz Band *http://www.sensemedia.net/sprawl/41345* Over twenty years jazzing up special events

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PC MAGAZINE, December 6, 1994

"Basic Pentium-66 at a great price. It's also on the Budget Top 20..."
PC WORLD, November 1994

"Service and Support are decent, with responsive, accurate tech support..." **PC WORLD, February 1994**

"The NETiS N4D266V's fine performance, low price, and super support make it the hands-down winner for top overall Best-Buy"
PC WORLD, January 1994

"The Best Buy system from NETiS Technology represents a remarkable combination of low price and high performance."
PC WORLD, November 1993

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N5120	**$2,240**

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- ☐ MaxiSwitch NOVA 101 Keybaord
- ☐ Mini tower with Power Supply

N466	**$1,045**
N4100	**$1,099**

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Contura Aero 486SX/33 C170,4MB,Mono	Call
ProLinea MT 486DX2/50,4MB,340MB HD	Call
DeskPro XL 566,16MB,535MB HD	Call

IBM Computers

ThinkPads/Notebooks:

486SX-33,4MB,170MB,Mono	Call
486DX2-50,4MB,340MB HD, Dual scan	Call
486DX4-75,4MB,540MB HD, Color	Call
PC series/ValuePoint	**CALL**

Networking Products

NetWare 3.12 25-user/50-user	$1,925/$2,650
NetWare 4.1 5-user/10-user	$698/$1,595
NetWare 4.1 25-user/50 user	$2,260/$2,858
16-bit Combo Ethernet Card	$35
3COM/Intel/Novell/SMC Ethernet	CALL
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Web Page Listings *continued...*

throughout SF Bay Area. [Exp. #144.]

Match.Com *http://www.match.com* "We met on the Net!" Thanks to Match. Com, the online dating service for the '90s. [Exp. #140.]

Millennium Whole Earth Catalog *http://www.well.net/mwec/* Twenty-nine pages from the *Whole Earth Catalog* transformed into about 170 Web pages. [Exp. #142.]

Minor Leagues, Major Dreams *http://www.deltanet.com/minorleagues* Minor league baseball, hockey, arena football, Indy 500 sports apparel retail sales. [Exp. #140.]

Mission Cliffs *http://www.mission-cliffs.com/mission-cliffs/* New indoor rock climbing center in San Francisco featuring impressive 50' high overhanging walls. [Exp. #145.]

Netsurfer Digest Home Page *http://www.netsurf.com/nsd Netsurfer Digest* is a free email-delivered e-zine bringing cyberspace directly to your mailbox. [Exp. #140.]

Nightflight Essential Guide To New York/Los Angeles At Night *http://www.echonyc.com/~voice* The Nightflight Guide features recommendations for the hippest nightclubs, eating, drinking, and gaming establishments in New York and Los Angeles. [Exp. #144.]

Northern California Guide To Minor League Baseball *http://www.webcom.com/~rmd/baseball/minorleague.html* Schedules, directions, ticket info, etc. for San Jose and Stockton. Coming soon: Modesto, Salinas, Sonoma. [Exp. #140.]

Online World Monitor *http://login.eunet.no/~presno/monitor.html* A free, bimonthly online product for supporters of The Online World resources handbook; subscriptions available. [Exp. #141.]

Online World—Online Resources Handbook *http://login.eunet.no/~presno/index.html* Broadcasting schedules for news in many languages, world travel guides, international affairs, health, much more. [Exp. #142.]

Open Book *http://futon.sfsu.edu/%7etalon* Open Book presents "Women's Journals," an interactive piece that was created exclusively for the Web. [Exp. #141.]

Optical Illusions *http://www.lainet.com/~ausbourn* A collection of famous optical illusions presented in a gallery format. Informative and educational. [Exp. #145.]

Pikes Peak Cam *http://www.softronics.com* A spectacular, unobstructed view of Pikes Peak, updated every two minutes, from the roof of Softronics. [Exp. #142.]

Relayer *http://bbs.annex.com/relayer/gate/htm* Come and play with Relayer. Using Netscape 1.1 codes to provide audio, visual, and weirdness. [Exp. #145.]

Rock And Roll Digital Gallery *http://www.hooked.net/julianne/index.html* A digital gallery featuring poster art and images with rock 'n' roll as the theme. [Exp. #143.]

Rock Around The World *http://www.ratw.com* Rock Around the World radio shows and newspapers: music, interviews, news—the '70s through today. [Exp. #141.]

Route 66 Los Angeles Webstation *http://www.losangeles.com* Find information about movies in theaters, on TV, and on video. This is a locally focused site supported by layers of global information. [Exp. #144.]

RTFM World *http://www.dnai.com/~cthomas/rtfm* RTFM is an occasional rock 'n' roll band of Sybase tech support people. [Exp. #140.]

San Francisco Bay Area And Beyond *http://www.hyperion.com/ba/sfbay.html* Pointers to local attractions, entertainment, community services, employment, newspapers, sports, dining, and more. Updated weekly. [Exp. #140.]

San Francisco Web *http://www.sfweb.com* Body, mind, spirit, personals, neighborhoods, and, of course, business listings. [Exp. #142.]

Sega Web *http://www.segaoa.com* Product information and graphics from the interactive king. Contests for prizes. [Exp. #140.]

Serenity *http://www.tecnation.com/serenity/* [Exp. #144.]

Solomon Speaks *http://pages.prodigy.com/CA/momonk/Solomon.html* Free WWW service kind of like "Dear Abby" or "Ann Landers." [Exp. #145.]

Sports World Internet *http://www.sports-world.com/sports/home.html* Live Sports Chat, $1000 contest, fantasy Football League, user articles. Sports experts and novices welcome. [Exp. #144.]

Susan Sutton Trio Home Page *http://ocf.berkeley.edu/~daaron/trio.html* The home page of the Susan Sutton Trio, a progressive and upbeat Latin-inspired jazz band in the north bay. [Exp. #145.]

continued on page 349

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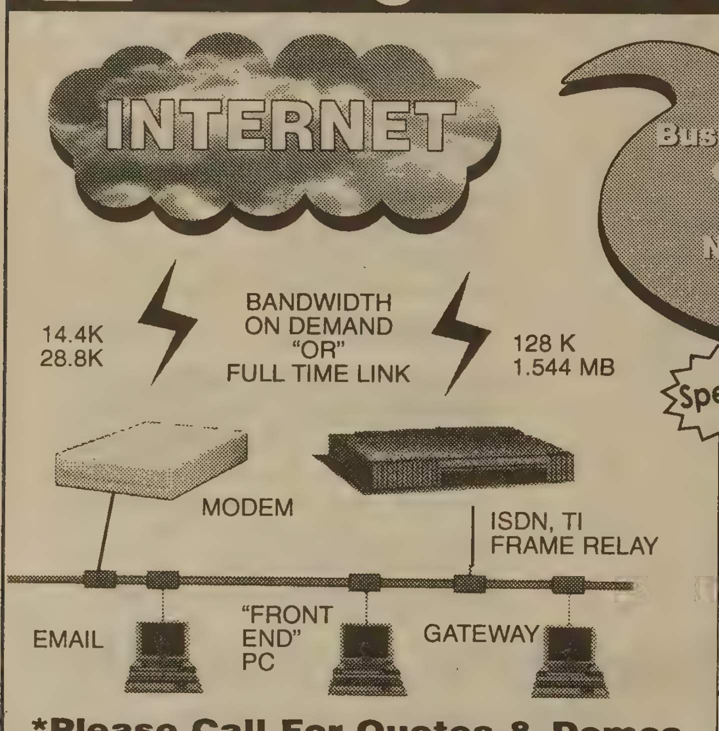
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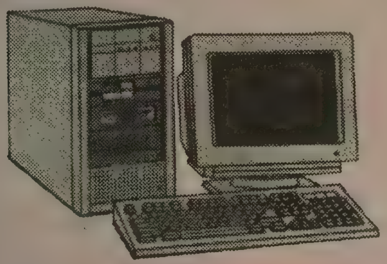

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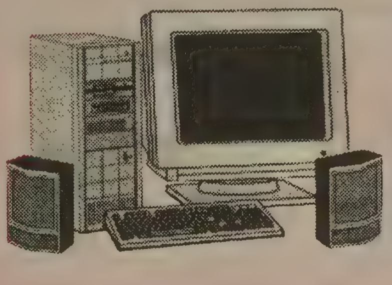

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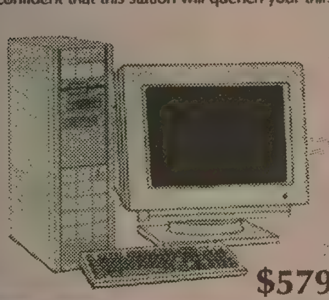

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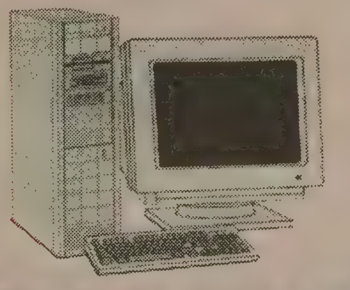

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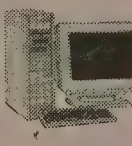

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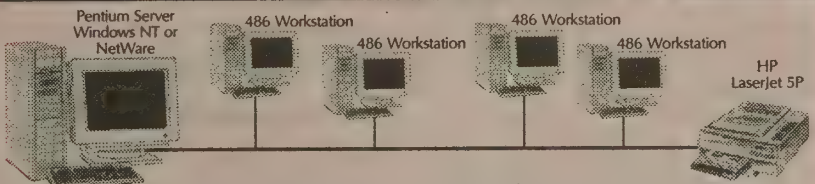

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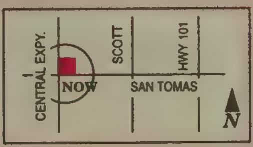

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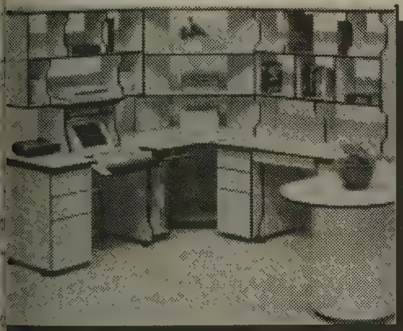
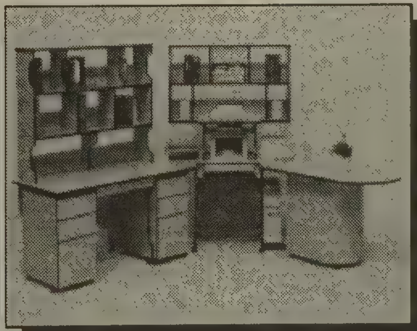
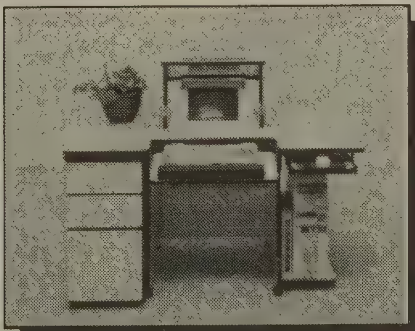
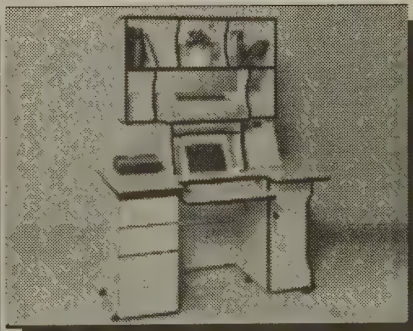

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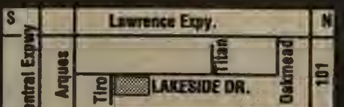

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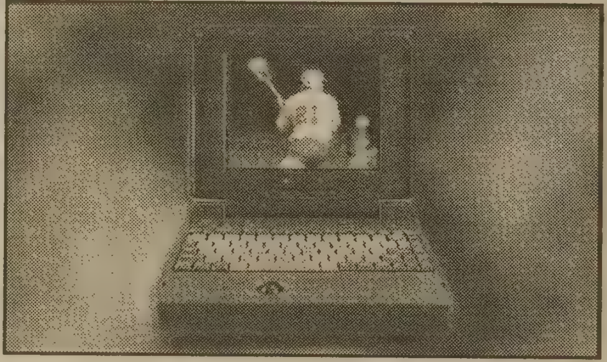

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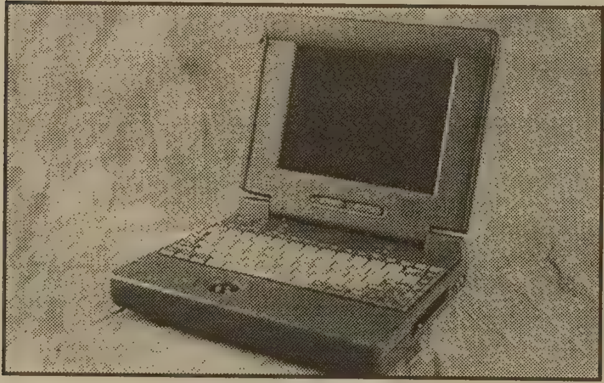

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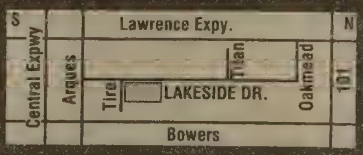

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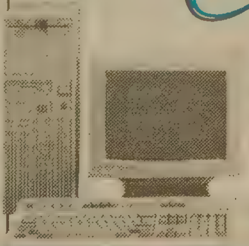

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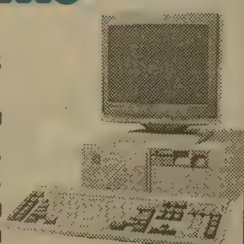

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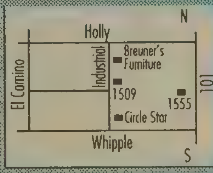

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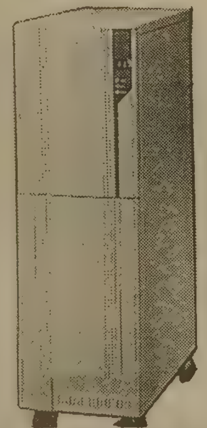

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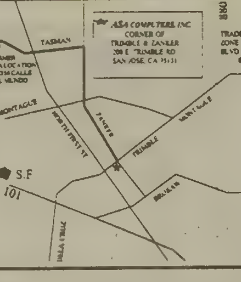

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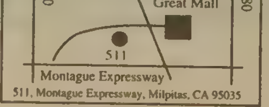

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- Pentium Overdrive Ready
- Motherboard & CPU
- 128/256K External Cache On Board
- 4 MB RAM (8 MB For Pentium)
- 210 MB IDE Hard Drive
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- IDE 2HD/2FD Controller w/I/O
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- 512K SVGA Video Card
- 1024x768 .39 14" SVGA Monitor
- Deluxe Mini-Tower Case w/Power Supply
- 101 Enhanced Keyboard
- Microsoft Compatible Mouse w/Pad

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INTEL PENTIUM 120 PCI	**$1699**
INTEL PENTIUM 100 PCI	**$1299**
INTEL PENTIUM 90 PCI	**1199**
INTEL PENTIUM 75 PCI	**1099**
INTEL PENTIUM 60 PCI	999
INTEL 486DX4-100 PCI	**949**
INTEL 486DX2-66 PCI	**819**
AMD 486DX4-100 PCI	**799**
AMD 486DX2-80 PCI	789
AMD 486DX2-66 PCI	779
CYRIX 486DX2-80 PCI	769
INTEL 486DX4-100 VLB	**899**
INTEL 486DX2-66 VLB	**789**
AMD 486DX4-100 VLB	**769**
AMD 486DX2-80 VLB	**759**
AMD 486DX2-66 VLB	749
CYRIX 486DX2-80 VLB	719
CYRIX 486DX2-66 VLB	709
INTEL 486DX2-66 ISA	**769**
INTEL 486SX-33 ISA	**669**
AMD 486DX2-66 ISA	**769**
CYRIX DX2-50 ISA	689
IBM 486BL-75 VLB	**779**
IBM 486SLC2-66 VLB	**709**
CYRIX 486DLC-40 ISA	629
CYRIX 486SLC-33 ISA	619
AMD 386DX-40 ISA	649

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Hard Drive	CALL
1 MB SVGA Card	$30
.28 14" NI SVGA Monitor	40
.28 15" NI SVGA Monitor	140
14.400 Fax/Modem Internal	44
250 MB Tape Back-Up	99
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- **INTEL Pentium CPU**
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- **ADAPTEC 2940 PCI SCSI-II Controller**
- TEAC 1.44 MB Floppy Drive
- 2-16550 High Speed Serial Port
- 1 Bi-Directional Printer Port
- **DIAMOND STEALTH 64 PCI Video 2 MB VRAM**
- **SONY 17SF .25NI Monitor 1280x1024**
- **QUAD Speed SCSI CD-ROM Drive**
- **SOUND BLASTER 16 Sound Card**
- 80W Deluxe Stereo Speakers
- **MICROSOFT Natural Keyboard**
- FREE Microsoft Mouse w/Pad
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- MICROSOFT WINDOWS 3.11 WG (Option)
- **MICROSOFT Office 4.3 Professional (Option)**
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PENTIUM 75 MHz	**$3299**
PENTIUM 90 MHz	**$3399**
PENTIUM 100 MHz	**$3499**
PENTIUM 120 MHz	**$3799**
PENTIUM 133 MHz	**$3999**

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- Pentium Over Drive Ready
- 128/256K External Cache On Board
- 4 MB High Speed RAM (8 MB For Pentium)
- 540 MB IDE Hard Drive
- 1.44 MB Floppy Drive
- PCI/VLB 32 Bit Enhanced IDE Controller
- 2 Serial, 1 Parallel, 1 Game Port
- PCI/VLB Accelerated Video Card 1 MB (2MB Max)
- 1024x768 .28 14" NI SVGA Monitor
- Deluxe Mini-Tower Case w/Power Supply
- 101 Enhanced Keyboard
- Microsoft Compatible Mouse w/Pad
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- 16-Bit Stereo Sound Card
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486DX4-100 PCI	**1059**
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PENTIUM 90 PCI	**1499**
PENTIUM 100 PCI	**1599**

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- **Pentium Over Drive**
- 256K External Cache On Board
- 8 MB High Speed RAM
- **540 MB Fast EIDE Hard Drive**
- **TEAC 1.44 MB Floppy Drive**
- PCI/VLB 32 Bit Enhanced IDE Controller
- 2 16550 High Speed Serial Ports, 1 Parallel Ports
- **ATI Woder PCI/VLB Video Card 1 MB (2 MB Max)**
- **MAG 15" NI SVGA Monitor**
- Deluxe Computer Case w/230W Power Supply
- KEYTRONICS 101 Enhanced Keyboard
- MICROSOFT Serial Mouse w/PAD
- MICROSOFT DOS 6.22 (option)
- MICROSOFT WINDOWS 3.11 For Workstation (option)
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PENTIUM 100 PCI	**$1649**
PENTIUM 90 PCI	1549
PENTIUM 75 PCI	**1449**
PENTIUM 60 PCI	**1399**
486DX4-100 PCI	1299
486DX2-80 PCI	**1279**
486DX2-66 PCI	**1239**

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- 1.44 MB Floppy Drive
- PCI/VLB 32 Bit Enhanced IDE Controller
- 2-16550 High Speed Serial Ports 1 Parallel Port (PCI)
- **ORCHID EZ PCI/VLB Video Card 1 MB (2 MB Max)**
- **IMPRESSION 15" NI SVGA Monitor 1280x1024**
- Deluxe Computer Case w/230W Power Supply
- **QUAD Speed IDE CD-ROM Drive**
- **FOCUS 2001 Enhanced Keyboard w/Dust Cover**
- **MICROSOFT WINDOWS 95 Option**
- MICROSOFT Office 4.3 Professional (Option)
- Microsoft Serial Mouse w/Pad
- MICROSOFT DOS 6.22
- MICROSOFT Bookshelf (Option)
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PENTIUM 60 PCI	**1549**
486DX4-100 VLB	1339
486DX2-80 VLB	1329
486DX2-66 VLB	1299

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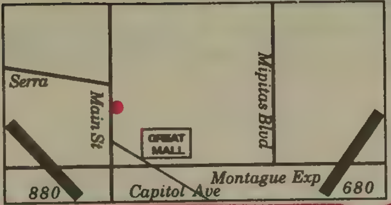

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Intel Triton Endeavor P5-120/256K PCI	$1002
Intel Triton Endeavor P5-100/256K PCI	$816
Intel Triton Zappa P5-133/256K PCI	$918
Intel Triton Zappa P5-120/256K PCI	$795
Intel Triton Zappa P5-100/256K PCI	$603
Intel Triton Zappa P5-90/256K PCI	$509
Intel Triton Zappa P5-75/256K PCI	$405
Intel Neptune P5-100/256K PCI	$582
Intel Neptune P5-90/256K PCI	$484
Intel Neptune P5-75/256K PCI	$380
SIS Pentium P5-100/256K PCI w/IDE PCI	$562
SIS Pentium P5-90/256K PCI w/IDE PCI	$460
SIS Pentium P5-75/256K PCI w/IDE PCI	$360
Genoa 486DX4-100/256K VLB (Intel)	$272
Genoa 486DX4-100/256K VLB (AMD)	$214
Genoa 486DX2-80/256K VLB (AMD)	$194
Genoa 486DX2-66/256K VLB (Intel)	$226
486DX4-100/256K PCI w/IDE PCI (Intel)	$276
486DX4-100/256K VLB (Intel)	$250
486DX2-66/256K VLB (Intel)	$200
486DX-33/256K VLB (Intel)	$180
486DX4-100/256K PCI w/IDE PCI (AMD)	$226
486DX4-100/256K VLB (AMD)	$198
486DX2-80/256K VLB (AMD)	$177
486DX2-66/256K VLB (AMD)	$173

FAMILY MULTIMEDIA SYSTEM

**Motherboard w/256K +CPU*
**8MB RAM*
**540MB IDE Hard Drive*
**SPIDER 32 VLB w/1MB (for 486 system)*
**SPIDER Tarantula Lite PCI w/1M (for Pentium system)*
**IDE VLB (for 486 system)*
**IDE PCI (for Pentium system)*
**1.44 Teac FD*
**101 Enhanced Keyboards*
**15" SVGA Non-Int Monitor (1280 X 1024, .28dp)*
**Super-mini Tower Case*
**Double Speed CD-Rom*
**Creative Labs SB 16 Vibra*
**Speakers*
**Microsoft Encarta 95*
**Microsoft Money*
**Microsoft Works*
**Entertainment Package (13 games)*

486DX4-120 (AMD)	$1332
486DX4-100(Intel)	$1310
486DX4-100(AMD)	$1258
486DX2-80 (AMD)	$1236
486DX2-66 (Intel)	$1266
486DX2-66 (AMD)	$1232
P5-60 PCI VLB	$1356
P5-66 PCI VLB	$1429
P5-75 PCI (SIS)	$1423
P5-90 PCI (SIS)	$1523
P5-100 PCI (SIS)	$1629

PROFESSIONAL DREAM SYSTEM

**Intel Triton Zappa PCI MB w/256K*
**Intel P5 CPU*
**CPU Cooler*
**EIDE PCI w/1p,2s W/16550 UART*
**8 MB RAM*
**SPIDER Tarantula Lite PCI w/1M*
**1.44 Teac FD*
**Keytronics Keyboard*
**15" SVGA Non-Int Monitor (1280 X 1024, .28dp)*
**850 MB EIDE Hard Drive*
**Medium Tower Case w/230W*
**Microsoft Ergonomic Serial Mouse*

P5-133 PCI	$1838
P5-120 PCI	$1715
P5-100 PCI	$1524
P5-90 PCI	$1419
P5-75 PCI	$1315

VERY AFFORDABLE 486 VLB

- ◆ 486/256K Motherboard Expand. 256K(30 & 72 pin sockets)
- ◆ 486 CPU
- ◆ 4MB - 70ns RAM Exp. 64MB
- ◆ 1.44 Teac FD (3.5")
- ◆ Spider 32 VLB w/1MB
  - Upgradeable to 2MB
  - Windows Accelerator
  - 16.7 Million Colors
- ◆ IDE VLB w/1p,2s,1g
- ◆ 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
- ◆ 420 MB Hard Drive
- ◆ Mini tower Case w/ 230W
- ◆ 101 Enhanced Keyboard
- ◆ Microsoft Compat. Mouse w/ Pad
- ◆ Free CPU Fan

486DX4-100(Intel)	$898
486DX4-100(AMD)	$825
486DX4-75(Intel)	$842
486DX2-80(AMD)	$804
486DX2-66(Intel)	$835
486DX-66 (AMD)	$780

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Expandable to 2MB
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**540MB Hard Drive*
**1.44 TEAC FD*
**Medium Tower Case*
**Mouse & Mouse Pad*
**Quad Speed (4XI) CD-ROM*
**Creative Labs Soundblaster 16 Vibra*
**Speakers*
**Microsoft Encarta 95*
**Microsoft Money*
**Microsoft Works*
**Entertainment Package (13 games)*

P5-100 (SIS) PCI	$1647
P5-90 (SIS) PCI	$1542
P5-75 (SIS) PCI	$1438
P5-66 (Opti) PCI + VLB	$1466
P5-60 (Opti) PCI + VLB	$1394
Genoa 486DX4-100 VLB (Intel)	$1329
Genoa 486DX4-100 VLB (AMD)	$1276
Genoa 486DX2-80 VLB (AMD)	$1254
Genoa 486DX2-66 VLB (Intel)	$1270

KEYBOARD

101 Enhanced keyboard	$18
Maxiswitch/Keytronics	26/29
Focus 2001/7000/8000/9000	35/47/35/50
Omnikey 101	70

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Fax Modem (96 F, 24 M)/Win	$39
Fax Modem (14400 F, 14400 M) Int / Ext	55/85
Fax Modem 14.4 voice/28,800 V.34	63/132
◆ US Robotics Fax/Modem 14,400	85
◆ US Robotics Fax/Modem 28,800 v.34	200
◆ Microsoft mouse serial/bus	26/53
◆ Logitech Mouseman serial/Bus (4000dpi)	30/51
❖COLORADO	
DJ-35C 350MB/DJ-25 700MB/DJ-50 1.4GB	149/200/325
Trakker 250MB/Trakker 700MB	270/345
◆ Baby AT/Mini Tower case w/230W PS	40
◆ Medium Tower case w/230W PS	60
◆ Full Tower case w/250W PS	80
◆ Dual Floppy Drive 1.2+1.4MB	95
◆ TEAC 1.2FD/1.44FD	42/37

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- ◆ 486/256K Genoa Motherboard Exp. 512k - (72 pin sockets)
- ◆ 486 CPU
- ◆ 8MB - 70ns RAM
- ◆ 1.44 Teac FD (3.5")
- ◆ Spider 32 VLB w/1MB
  - Upgradeable to 2MB
  - Windows Accelerator
  - 16.7 Million Colors
- ◆ IDE VLB w/ 1p, 2s, 1g
- ◆ 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
- ◆ 420 MB Hard Drive
- ◆ Mini tower Case w/ 230W
- ◆ 101 Enhanced Keyboard
- ◆ Microsoft Compatible Mouse w/ Pad
- ◆ Free CPU Fan

486DX4-100 (Intel)	$1028
486DX4-100(AMD)	$975
486DX4-75 (Intel)	$993
486DX2-80 (AMD)	$953
486DX2-66(Intel)	$970
486DX-66 (AMD)	$936

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420mb/14ms (IDE)	145
1.2 GB/12ms (EIDE)	250
850mb/12ms (EIDE)	200
1.0 GB/10ms (SCSI)	365
❖MAXTOR	
1.0 GB / 12 ms (EIDE)	270
850mb/ 10 ms (EIDE)	200
540mb/14ms (IDE)	169
❖QUANTUM	
540mb/12ms FB540A	176
540mb/14ms (SCSI)	190
730mb/12ms (EIDE)	210
730mb/12ms (SCSI)	245
2.1 GB/8ms (SCSI-2)	730
❖WESTERN DIGITAL	
850mb/10ms (EIDE)	210
540mb/12ms (IDE)	175
1.2 GB/10ms (EIDE)	300

MULTIMEDIA

❖CREATIVE LABS	
SoundBlaster Basic 2.0	58
SoundBlaster 16 Vibra OEM/ MCD w/ASP OEM	75/89
SoundBlaster 16 SCSI-II OEM/ SCSI II w/ASP Orig	110/190
SoundBlaster AWE 32	265
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◆TEAC 4XI CD ROM IDE	180
◆TOSHIBA CD ROM 5302 4XI IDE	185
◆TOSHIBA CD ROM 3601 Int / Ext	305/405
◆PANASONIC 4XI SCSI CD ROM	185
◆ Impression 2xi Multimedia Kit: Double-speed CD-ROM + Soundblaster 16 Vibra 5 Microsoft *Home* software + Speakers	210
◆ Impression 4xi Multimedia Kit: Quadruple-speed CD-ROM + Soundblaster 16 5 Microsoft *Home* software + Speakers	270
◆ SCSI 4xi Multimedia Kit: Toshiba 3601 4xi + Soundblaster 16 SCSI-II Microsoft *Home* software/Dune/MS Mouse Amplified Speakers + Microphone	485

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IDE W/ I/O / I/O w/ 1p,2s,1g	14/12
IDE VESA Local Bus / w/16550	20/34
Enhanced IDE VLB / w/16550	30/30
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Adaptec SCSI 1522	77
Adaptec SCSI 1542CF/1542CF w/Kit	180/240
Adaptec SCSI PCI 2940 OEM/ 2940 w/Kit	210/240
Adaptec SCSI PCI 2940W w/Kit	285
Adaptec SCSI 2842A-VL OEM w/ Kit	200

BEST BUY PENTIUMS

- ◆ Intel Neptune PCI MB w/256K
- ◆ Pentium P5 CPU
- ◆ IDE PCI Controller w/1p,2s.1g & 16550 chip
- ◆ 8MB - 70ns RAM (72 pin SIMM)
- ◆ 1.44 Teac FD (3.5")
- ◆ Spider Tarantula Lite w/ 1M
  - Uses the S372 Chipset
  - 64 Bit Accelerator
  - 16.7 Million Colors
  - Expandable to 2MB
- ◆ 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
- ◆ 540 MB Hard Drive
- ◆ Medium tower Case w/ 230W
- ◆ 101 Enhanced Keyboard
- ◆ Microsoft Mouse w/ Pad
- ◆ Free CPU Fan

Pentium 120 (Intel)	$1593
Pentium 100(Intel)	$1402
Pentium 90 (Intel)	$1297
Pentium 75 (Intel)	$1193

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❖TRIDENT	
SVGA-512/1MB (1024x768,16bit)	$38/58
❖DIAMOND	
Viper Pro Video w/2MB / 4MB	345/470
Stealth 64 Video VLB/PCI w/1MB/2MB DRAM	125/175
Stealth 64 Video PCI w/2MB/4MB VRAM	265/415
❖SPIDER	
Tarantula 64 MK II VLB/PCI 2MB/4MB VRAM	275/385
Tarantula VLB/ PCI w/2MB/4MB VRAM	240/355
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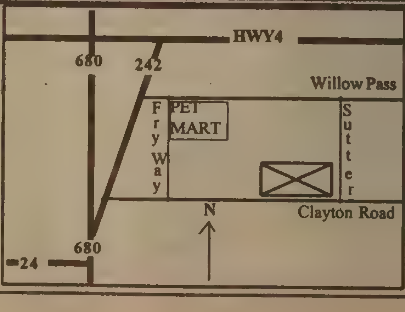

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WIRELESS

A Visit With Motorola's Randy Battat

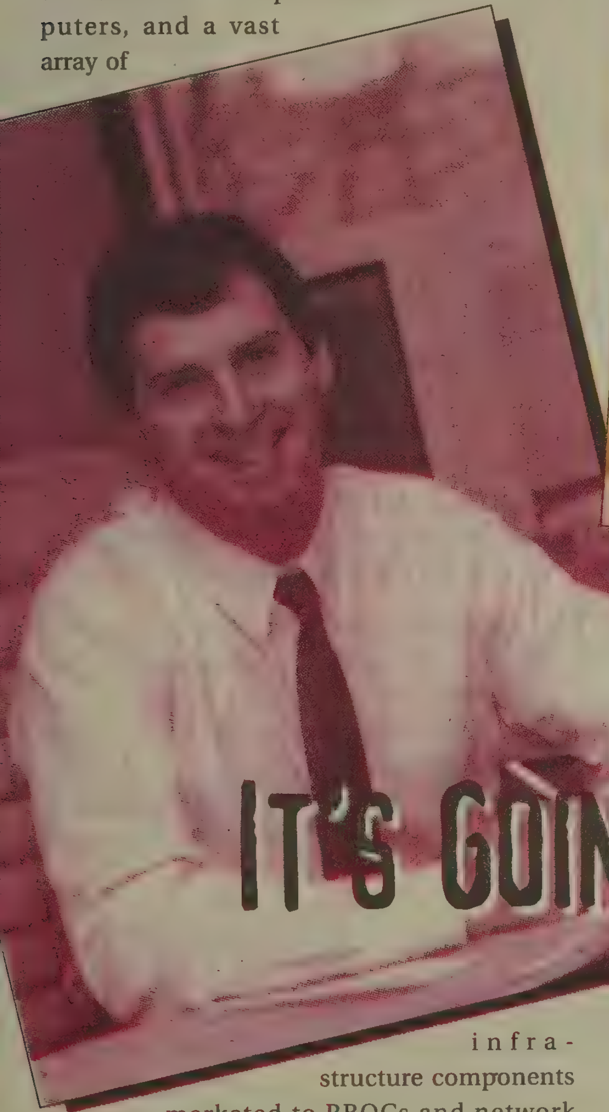
BY MARY EISENHART

> "ALL THIS NOTION OF ORGANIZATIONAL STRUCTURE THAT WAS RELEVANT TWENTY YEARS AGO IS NO LONGER RELEVANT, AND THAT'S SCARING THE BEJESUS OUT OF PEOPLE."
>
> **—Randy Battat**

IT'S GOING TO CHANGE YOUR LIFE

Wireless data technology has been converging with personal computers for some time now (see George Gilder interview, "Scoping Out The Data Highway", Issue 125), as mobile workers look for ever-better ways to take their jobs wherever they go. And few companies are more involved with this convergence than Motorola, a longtime pioneer and innovator in wireless communications.

Apple veteran Randy Battat, now corporate vice president and general manager of Motorola's Wireless Data Group, laughingly describes his division's products as "floor waxes and dessert topping!"—i.e., just about everything pertaining to the convergence of computers and wireless. It encompasses PDAs like the recently shipped Envoy and Marco devices, wireless modems for personal computers, and a vast array of infrastructure components marketed to RBOCs and network operators.



"Today, and historically," Battat says, the company's wireless data products have served "a lot of vertical markets and specialized applications. For example, if you ever get into an Avis bus, when they drive you to your car they punch your name into the terminal and it tells you where your car is. We make that terminal, and it works off the ARDIS network. Or your UPS truck driver comes in and you sign the form—we do that terminal."

However, if Battat is correct in his assessment, all this is about to become more popular and less specialized. (Motorola Wireless Data Group, 1-800-894-7353.)

YOU'VE SAID THAT YOU SEE THE WIRELESS INDUSTRY BEING WHERE THE PC INDUSTRY WAS FIFTEEN YEARS AGO. COULD YOU ELABORATE ON THAT?

Sure. A nice example might be the whole world of local area networks.

Today we take networks for granted. Groupware—Lotus Notes is a hot-selling application, in more ways than one! And all that assumes the existence of a local area network, that people are communicating. But a long time ago, PCs were all standalone.

For many years people were saying, "We have this neat local area network technology, but next year's going to be the year of the LAN, next year's going to be the year of the LAN," and then all of a sudden we woke up one day and Cisco was a billion-dollar company, and Wellfleet and Bay Networks. There's a giant industry around wire-line local area network communications.

Wireless data communications are kind of in that stage. A few years from now we'll start to take it for granted. Although today it's one of those things that everybody expects to be using, it's still only used by people who see the direct value in it at this time.

FROM TALKING TO PEOPLE IN THE WIRELESS PDA MARKET, IT SEEMS AS IF THIS TYPE OF TECHNOLOGY REQUIRES A FAR MORE COMPLEX INFRASTRUCTURE THAN THE PC DID IN ITS INFANCY.

To me, it's another aspect of likening this to the PC industry fifteen years ago. In the early '80s, PCs were certainly not taken for granted at all. There was an existing base of mainframes and minicomputers which were quite well entrenched, and when you looked at this new thing called the PC, people said, "Why do I need that? I can do anything you could do on this PC off a mainframe with a terminal, at a much lower cost. I already have a lot of the applications that you'd need. What do I need to buy this $2–3000 standalone thing for?"

There wasn't much software for it; there wasn't a huge software industry; you had to go to your local Homebrew Computer Club to figure out how to piece the damn things together. The places that sold this were techie hobby shops that sold ham radios. It was a very different state from the PC industry that we know and love today.

Yet the PC was a major fundamental shift in many, many ways away from its minicomputer and mainframe predecessors. Why?

Most important, there was a different social context than there was with a minicomputer and a mainframe. With a PC, the whole notion of a personal computer was that you were in control. You could decide when to turn it on and off, and what to put in it, and how to use it, and so forth. As opposed to having somebody who lived in a glass house tell you when you were allowed to use it. A lot of people had a hard time understanding what that would mean later on! [*laughs*]

The whole notion of platforms wasn't there before PCs. All of a sudden the economic structure of the computer industry totally changed. Retail distribution emerged with PCs; you sold mainframes and minicomputers with a direct sales force. The notion of software development, hundreds of thousands of shrinkwrapped software applications on the shelf, was only associated with the PC; with minis and mainframes, you wrote software yourself, or you bought it from a specialized integrator.

There were a whole bunch of very important consequences that led the PC to be completely, fundamentally different in many ways from its mini and mainframe predecessors.

The flip side of that is that it took time for all of those differences to be assimilated into the world. Many new technologies take a long time to assimilate themselves into the world. It's not just osmosis, of course; it's people using these things, learning more about them, and what they can do. As a result, people who supply these things change them, and reduce prices, and add features, adapting them to the market needs.

The whole environment evolves. It really is an evolutionary process, and all of a sudden you wake up and PC companies are $10 billion companies.

I'd assert that this world of PDAs or wireless communicators or whatever you want to call them offers the same kind of fundamental shift. The flip side of that is that the consequences of that fundamental shift are going to be similar to PCs—they'll probably be far-reaching in nature, but they'll also take a long time to occur, with lots of evolutionary iterations along the way.

I think we can see the beginnings of that. We know that people want something that's a little bit more intimate, that might be more convenient to carry with themselves everywhere they go, that they can use to organize their lives and communicate. People declare these as needs that they want fulfilled.

And yet PCs are better at calculation, memo-writing, presentation creation, things like that. We also know that PCs don't scale; just as minis didn't scale down to the PC level, PCs aren't going to scale down to this little tiny thing that you carry around with you everywhere you go. For many reasons—technically, economically, socially, etc.—you can't take this thing that has a 640 x 480 pixel screen, and hundreds of megabytes of hard disk space, and huge megaprocessors, and megabytes and megabytes of RAM, and so forth, and expect it to scale down to something that fits in your shirt pocket and have any resemblance to the original PC. If you attempted to scale it, it wouldn't be a PC anymore.

We know that there's an innate desire for something different, at least I assert that. We also know that PCs don't scale—lots of people have tried it—and there is room for something new. There is also the potential for far-reaching consequences, and other elements of the whole macroeconomic equation associated with these nice little gadgets. Because they're so personal, you use them differently than you use PCs.

When you use a PC, you sit down at a "work station." You get some work done. There's a beginning, a middle, and an end, and then you're done with it until you come back to your work station again.

With these little PDAs, you turn them on, accomplish a little piece of a task, and then turn them off. Write a note to your colleague, send it, turn it off. Glance at your calendar, see where you have to be next. You glance at your Rolodex and look up a phone number. You make a note to yourself and file it away. So you use it in a very different way.

I would expect that just as the PC had very different social implications versus the minicomputer, the wireless communicator will probably have different social implications.

There probably are different implications about the structure of software. Today there's shrinkwrapped applications that have the kitchen sink built into them. You can't produce a new word processor unless it has the ability to flow text around arbitrarily shaped graphical objects; you have to have lots of different fonts; you have to have an outline processor, etc., etc., etc.

PDA software is based on high-level scripting languages, which means smaller applications focused on more targeted tasks. I would assert that that means the threshold for application development will decrease. More people will be able to create applications, and you may look at applications much as you look at novels in a bookstore. You choose which one you want, and they're used for highly targeted tasks. You don't buy one like a word processor and use it forever in a very general-purpose way; you might buy a PDA application and use it in a special way.

Also, the economic equation is different. These things are often associated with communications services, either wire-line or wireless. That changes the economic equation in a huge way, because there's a subscription—you buy something, and there's a subscription as well. How cash flows across the application writer, the device manufacturer, the service provider, creates interesting opportunities.

THIS MIGHT BE KIND OF SILLY, BUT I KNOW AN AWFUL LOT OF PEOPLE WHO REFUSE TO GET CAR PHONES BECAUSE THEY DON'T WANT THEIR CAR TO BE THEIR OFFICE. AS YOU GET THESE LITTLE UBIQUITOUS PERSONAL COMPUTING DEVICES, AND THEY'RE TIED TO YOUR BUSINESS, IT'S LIKE YOU CAN NEVER TURN YOUR BUSINESS OFF, WHICH A LOT OF US DON'T NECESSARILY WANT. THIS IS SORT OF A SOCIAL THING—YOU'RE ALWAYS REACHABLE, SO ARE YOU ALWAYS YOUR BUSINESS SELF?

I don't think it's a minor point, I think it's a fundamental point. Let me offer just a few thoughts to put that in context.

This notion that you describe of "Jeez, work won't stop! It's always invading my life!" is an extremely relevant point. But I think we have to stop for a second and say, "Why is this occurring?"

I'll try some ideas on you for size.

People used to talk about the industrial society versus the agrarian society, where in an agrarian economy land was valuable, and in an industrial economy capital was valuable. People talk about the current times, that what we're going into is a knowledge-based economy, where knowledge is more valuable than capital per se.

The economy we came from was very compartmentalized. The whole notion of mass production—you stand on the assembly line and do your thing—was an industrial-economy

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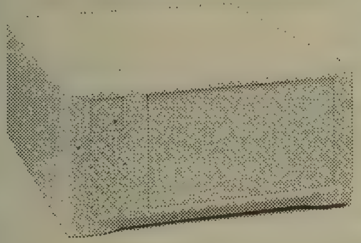

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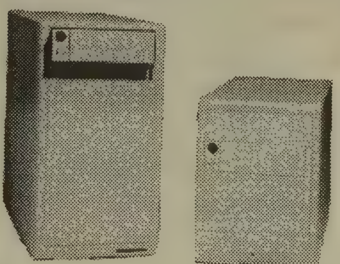

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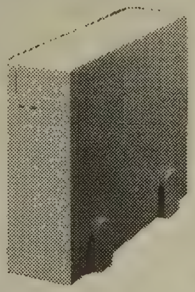

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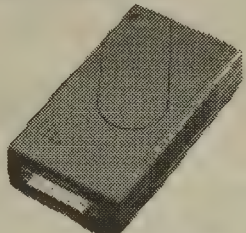

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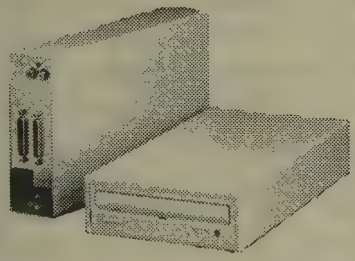

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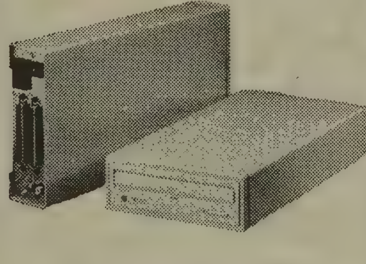

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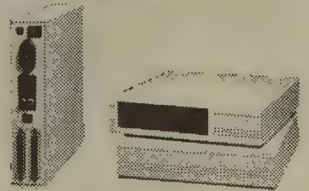

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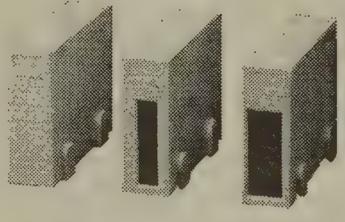

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kind of notion. The org chart—here's where you fit into the organization. The job description—here's what your job is. The notion of 9 to 5—here's the hours that you work. All this very structured view of work, from manufacturing to how organizations work, to job descriptions etc., were all notions of the industrial economy.

The world that we're moving into—oh, by the way—smashes all those barriers to pieces.

I suspect I'm calling you at your home now, right?

RIGHT, EXACTLY.

So you work a little bit at home, and you work a little bit at the office. For almost everybody these days, the notion of home and office is starting to blur. Business travel is up substantially. It used to be a regal affair—you hopped on a plane, it was exotic—

AND NOW IT'S LIKE GETTING ON THE GREYHOUND!

It's sort of a pain in the butt. Business travelers forget this statistic, but it's up something like tenfold over the last ten to twenty years. And how we're working is very, very different.

The notion of a job description is totally different. You don't tell people "This is your job, and you stay in this box, and you work in this place, and we're going to take care of you forever," and you define that path and that's the way things are. No.

Today you're expected to cross functional boundaries. You're expected to go beyond whatever it is that some structured job description defines your job as. People who work are people who can integrate lots of things across functions of a business—see customers, see technology, see financial aspects, and so forth. Those are the people who are rewarded. The people who are recognized are also the people who take it upon themselves to manage their own growth and development, as opposed to the paternalistic organization which takes care of them and plans their lives for them.

So all this notion of structure that was relevant twenty years ago is no longer relevant, and that's scaring the bejesus out of people.

The other consequence of that is that with all this blurring of functions, people are expected to do things and to act on the behalf of the business wherever the business takes them.

Technology can certainly be used as a tool to enable people to follow wherever the business might take them, but it can also be used as a way to put people in control of how they want to conduct their own business. You can look at the pager as a horrible leash, tying you down to your office; you can also look at it as a liberator, as a way for you to go about wherever, to increase your freedom, knowing that if something important occurs, you can get in touch.

The notion of wireless communications, particularly the store-and-forward nature of it, is that with wireless email, you can get things done wherever you are. You can also turn it off, and know that if something important comes in, it'll stay there, so the next time you want to check, you can see what has occurred. Technology, I suspect, is allowing you to file a story from home instead of traveling into the office to do so.

This point that you mention is, I think, the fundamental point about the benefits of wireless technology and these little wireless communicators we're talking about. Yes, the society and macroeconomic climate that we're living in are going to demand more of us, to take us wherever the business takes us; but at the same time the society puts pressure on us, the technology allows us to put ourselves back in control of how we want to work and behave.

DO YOU SEE THE SAME PEOPLE USING BOTH DATA MODEMS AND PDAS?

On the one hand, there's a huge world of PCs, and we want to bring the benefits of wireless communications to that. We'll probably see more business of wireless communications on garden-variety notebook PCs in the next few years than we'll see in this brave new world of wireless communicators. One is an extension off an existing application; the other is a totally new industry.

That said, in the long haul, some people may have both kinds of devices. Some may have one or the other. I think it's going to depend on individuals' preferences. I suspect that certain gadget freaks like myself may have a little bit of both, because they will end up serving different needs.

The PC on your desktop is good when you want to look at a screenful of information; if I'm going to go on a long plane ride I'll probably grab my notebook PC and work on a presentation and so forth. But day to day when I'm going about my business, I'll want to flip the wireless communicator in my coat pocket, and have my calendar, my schedule, and the ability to communicate wherever I go.

I really see them being used in different ways. The challenge is to be able to tie them together, dump your calendar off your PC onto your PDA, and have it always have an updated version, and have the two synchronized. Have one email box across all of them. In the short term it's probably true that people who take on the PDAs are people who are comfortable with technology, people who view themselves as getting an advantage over their competition if you will, from having the latest technology. As a result they're probably also the first on their block to have PCs.

RIGHT NOW THE HOME OFFICE IS A BIG DEAL—DO YOU SEE THE DAY WHEN PEOPLE TRANSCEND THE HOME OFFICE ENTIRELY AND JUST HAVE A VIRTUAL OFFICE THAT GOES WITH THEM WHEREVER THEY ARE?

I'm sure some people will want to work that way. I suspect that usage of these things is going to be driven more by working patterns and habits, and ergonomics associated with the devices.

I suspect that for most there will be a time when you want to sit at a desk and look at a large screenful of information and read some papers and so forth, so the notion of having a desktop probably will be important.

There will probably be some segment of the population that likes to live and work out of their car, but I suspect that that would be the minority. There are certain creature comforts in being able to sit back in a nice big chair and relax, bring in the messages of the day, surf the net, and so forth. I don't see the PDAs being the universal device, assuming all those other activities. There will certainly be a need for all these other devices, because they'll be better at certain things.

On the other hand, sending short messages from one person to the other is a lot more convenient to do off a PDA that you're keeping in your shirt pocket than running back to your desk and answering a short "Come here Watson, I need you" kind of message.

The truths I would hold to be self-evident are the work patterns that are emerging in society, and the ergonomics that are associated with the device. A little thing that fits in your shirt pocket is going to have a small screen. If it has a keyboard at all it's going to be teeny, and it's probably going to have some pen-based input. So it's better for short notes, jotting little points, viewing small screenfuls of information, versus the thing that has a nice big comfortable keyboard and a huge two-page display and so forth.

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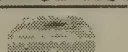

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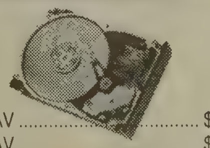

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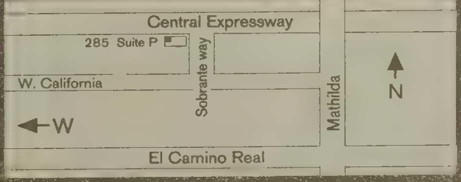

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QUALITY AD BY PRECISION GRAPHICS OF SANTA CLARA see ourselves in the platform business, if you will; or if there is a platform, it's wireless. The strategy is to pick the major PDA platforms, because we think that a number of them offer enough differences that they're going to be successful with different customer sets. We want to bring wireless to those major PDA platforms.

WHAT KIND OF APPLICATIONS WOULD YOU LIKE TO SEE DEVELOPED THAT AREN'T OUT THERE NOW?

Well, we started with wireless messaging, which is real powerful and real prevalent. There are a number of others underway. Whether it's being able to access your corporate databases or do field sales automation—these things are going to be used for business before they're consumer devices. There are applications under development for stock trading, financial services.

One of the most promising applications for wireless communications right now in China looks like electronic funds transfer and point-of-sale opportunities; it's so hard to get phone lines installed in China that if you could just do credit card verification over a little point-of-sale terminal real fast, that would solve such a great need in China right now that there's a huge market right there, even for something as mundane as that. There's a lot of neat applications around the world.

IS THAT THE KIND OF PROBLEM MOTOROLA WOULD WORK ON ITSELF OR FIND PARTNERS?

It's the kind of thing we'd work with third parties to solve. But all the applications I've mentioned are under development as we speak. I think the advancement of the market with some open platforms and a little bit of cooperation across the industry is all that it takes.

ARE REGULATORY ISSUES OF ANY PARTICULAR CONCERN TO YOU?

The biggest regulatory issues that we care a lot about are the allocation of spectrum for wireless data communications. If there isn't spectrum license for an operator to have for wireless data, then there's not a market for somebody to invest in putting up the base stations and antennas and so forth.

SO YOU'RE IN FAVOR OF TAKING PREVIOUSLY UNRESTRICTED SPECTRUM AND AUCTIONING IT?

Well, in this country there has been some pretty good licensing activities for spectrum. We do have spectrum assigned; we could always use more, of course, but we're very much in favor of this whole auctioning process for license spectrum, and we're also in favor of some portions of the radio frequency spectrum being unlicensed.

The way we prefer to approach it, and I think the FCC's approaching it this way, is that licensed spectrum is particularly relevant where someone wants to make a business out of operating a network, let's say for nationwide coverage. Because by guaranteeing somebody free spectrum in that place, that allows somebody to offer a high-quality service. If it's unlicensed spectrum, that means lots of people are sharing the spectrum; no network operator in their right mind would put up a service there, because you can't guarantee the quality of the service.

Licensed spectrum is good if somebody needs to put up, say, base stations every five miles, like for the Envoy, in order to operate a service. Unlicensed spectrum is good for things like wireless PBXes, or wireless local area networks—if you want to take your LAN and make it work wireless for a campus environment, or you just want to put up a couple little base stations inside your office and let them work, that's what unlicensed spectrum is good for; you shouldn't have to apply for a license there, since nobody's trying to make a business out of operating that just in your office.

WHAT PORTION OF WIRELESS COMMUNICATIONS DO YOU SEE INVOLVING THE INTERNET?

We think the notion of wireless email, wireless messaging through the Internet, is a pretty powerful one. Today on the Envoy and the Marco there's a service called RadioMail that is an Internet-based wireless messaging service. You can send email to and from anybody on the Internet wirelessly.

WHAT ABOUT DATA SECURITY AND ENCRYPTION?

Certainly the Envoy and Marco today support Internet-based email, and that is not secure. That is an issue, that's a problem. We have to fix that, and we have to add security to that Internet-based communication, for those who want it. It's a requirement for Internet-based communications, let's say, within a corporation.

Outside the walls of an organization it's pretty tough to get the security to work if you want ubiquitous communications.

There will be other services. Just now on the Marco there's QuickMail from CE Software. That goes over ARDIS, and it's not encrypted per se, but it's pretty secure because it's a packet data network, and it's secure from the ARDIS network to your local QuickMail server. There's nothing inherent in these devices that says they have to be insecure, but when the email service uses the Internet as a backbone, then security becomes an issue.

WHAT ARE THE TECHNICAL CHALLENGES THAT HAVE TO BE OVERCOME IN ORDER FOR WIRELESS TO BECOME A MAINSTREAM PRODUCT?

I think the biggest challenges have to do with assimilating technology into the marketplace, which is an interactive process of users knowing more about what they want, and learning more about the technology, and the people making the things learning more about what users want and adapting the technology. Those are the most challenging hurdles that there are, working that process.

Could things be cheaper? Absolutely. Could they be faster? Sure. There's lots and lots of room for technological improvement, but I think the basics are there in order to get going right now. I don't think it's the case that if we could just get to $500, if we could just get to much higher performance, if we could just get to these things then we'd be there...

My point is that the act of iteration will get you to the lower price points and the higher speeds and the better functionality. It's not just that if you could just declare what that one sweet spot is and just do that, we're all done.

I might suggest that we could do a lot of good stuff with plain old modem technology when you can have ISDN at home. I'm fortunate enough to have an ISDN line in my home, which I love. My life just got a whole lot better, but yes, I'm still doing mostly email from home. It's a little bit faster, and I do have the ability to surf the net when I didn't have that ability before the ISDN line.

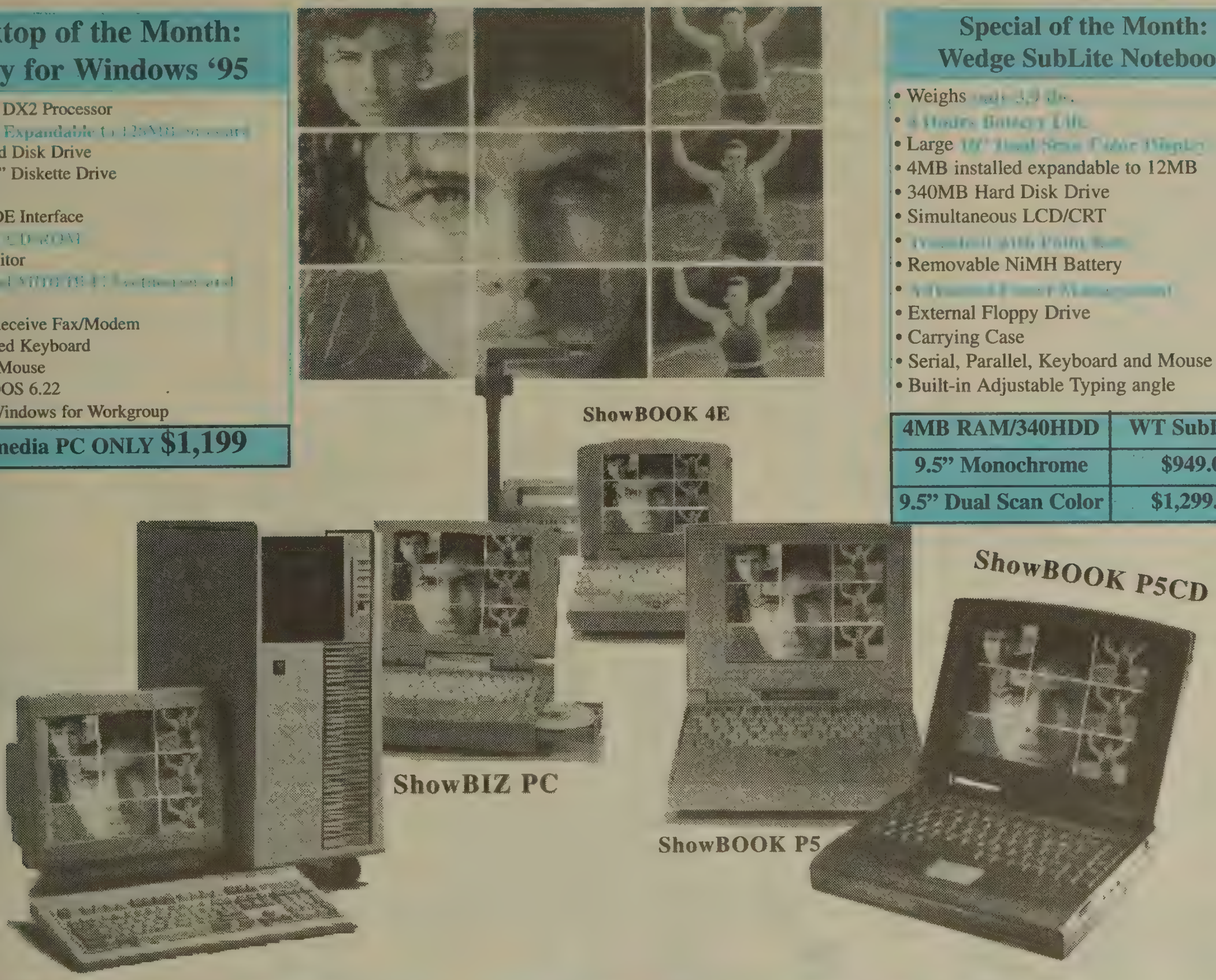
Incremental changes in technology can certainly bring quantum leaps in functionality. But I think we've got enough to get started, and yes, we do need the incremental changes. ■

OVER 15 YEARS OF PROVEN INTEGRITY AND TRUST

Desktop of the Month: Ready for Windows '95

- 66MHz 486 DX2 Processor
- **4MB RAM Expandable to 128MB on-board**
- 540MB Hard Disk Drive
- 1.44MB 3.5" Diskette Drive
- 1MB Video
- On-board IDE Interface
- **Dual Speed CD-ROM**
- 14" NI Monitor
- **16-bit sound MIDI [illegible] and Speakers**
- 14.4 Send/Receive Fax/Modem
- 101 Enhanced Keyboard
- Ergonomic Mouse
- Microsoft DOS 6.22
- Microsoft Windows for Workgroup

Multimedia PC ONLY $1,199



Special of the Month: Wedge SubLite Notebook

- Weighs **only 3.9 lbs.**
- **4 Hours Battery Life**
- Large **10" Dual Scan Color Display**
- 4MB installed expandable to 12MB
- 340MB Hard Disk Drive
- Simultaneous LCD/CRT
- **Trackball with Palm Rest**
- Removable NiMH Battery
- **Advanced Power Management**
- External Floppy Drive
- Carrying Case
- Serial, Parallel, Keyboard and Mouse ports
- Built-in Adjustable Typing angle

4MB RAM/340HDD	WT SubLITE
9.5" Monochrome	$949.00
9.5" Dual Scan Color	$1,299.00

ShowBIZ for OHP Presentation

- **Multimedia PRESENTATION Notebook w/ removable backlit panel for use with over head Projection (DS & AC Models available)**
- Upgradable CPU (SX/DX/DX2/**DX4-100**)
- 4MB RAM Expandable to **32MB**
- Removable 1.44MB FDD - replaceable for a 2nd battery pack giving **6 hours battery use.**
- Removable 340/520/720/**810MB HDD**
- **TRUE 32-bit VESA Local Bus**
- **Type III PCMCIA** Slot
- Built-in Sound Chip with Mic & Speakers
- Built-in Trackball with Palm Rest
- **NiMH** Battery and Carrying Case
- Fast **16550** Serial, **EPP/ECP** Parallel Port
- Size: 11.2"(w) x 9.0"(d) x 1.8"(h), 6.4 lbs.
- Optional **Remote Control with software to create special effects**
- Optional Multimedia Docking Station

340MB Hdd	DS Color	TFT Color
486-66DX2	$ 2,925	$ 3,749
486-100DX4	$ 2,995	$ 3,899

ShowBOOK 4E - 486 Multimedia

- Multimedia 486 Notebook (MO/DS/AC)
- Upgradable CPU (**SX/DX/DX2/DX4-100**)
- 128Kb Cache and up to **32MB RAM**
- **TRUE 32-bit VESA** Local Bus
- **PCMCIA Type IV** slot (Equivalent to 1 Type III and 1 Type II Slots combined)
- **Built-in Audio Chip, Mic., & Speaker**
- Removable HDD (340, 520, 720, **810MB**)
- **Two Hot Swap NiMH Batteries**
- Built-in **25mm Trackball** with Palm Rest
- 128KB Flash ROM w/ **Advanced Power Management**
- 3.5" 1.44MB Floppy Drive
- Luxury Carrying Case
- Optional Easy Docking Station
- **Optional VESA Local Bus multimedia Docking Station with Built-in Stereo Speakers, 2 x 16-bit full size ISA slots and 2 x 32-bit VESA Local Bus slots.**

340MB Hdd	Mono	DS Color
486-66DX2	$1,390	$1,810
486-100DX4	$1,470	$1,890

ShowBOOK P5 - Pentium PCI

- Multimedia Pentium Notebook (DS/AC)
- **Pentium 75/90MHz Processor**
- **256KB Cache** and 8MB up to **40MB RAM**
- **64-bit Memory Data Path**
- **PCI Local Bus Video and IDE Controller**
- **PCMCIA Type III** or Two Type II Slots
- **Built-in Audio, Mic and Stereo Speakers**
- HDD options of 340, 520, **810MB**
- Built-in Trackball with Palm Rest
- 128KB Flash ROM
- **Advanced Power Management**
- 1MB VRAM provides 1024x768x256 colors
- 3.5" 1.44MB Floppy Drive
- Fast **16550** Serial, **EPP/ECP** Parallel Port
- **Infra Red Wireless Interface for wireless printing and data transfer**
- NiMH Battery
- Carrying Case
- Optional Multimedia Docking Station w/ Built-in Stereo Speakers & Expansion slots

340MB Hdd	DS Color	TFT Color
P5-75	$ 2,499	$ 3,499
P5-90	$ 2,599	$ 3,599

- Multimedia Pentium Notebook w/ **CD-ROM**
- **Pentium 75/90/100/120MHz Processor**
- **256KB Cache** and 8MB up to **32MB RAM**
- **PCI Local Bus Video and IDE Controller**
- **PCMCIA Type III** or Two Type II Slots
- Built-in Audio, Mic and Stereo Speakers
- Removable 340, 520, **810MB, 1.3GB HDD**
- Built-in **GlidePoint** with Palm Rest
- 256KB Flash ROM w/ **APM**
- **2MB VRAM** provides 1024x768x256 colors
- **3.5" 1.44MB FDD Exchangeable for TV Tuner or Video Capture Module**
- Fast **16550** Serial, **EPP/ECP** Parallel Port
- Built-in **Gamepad** and **MIDI/Game port**
- **Infra Red Wireless Interface**
- Over **6 Hours** battery life w/ Super Battery pack
- Smart Battery replaceable for AC/DC Adapter
- Graphical System Status LED
- 800x600 Resolution on 11.3" Dual Scan model

340MB Hdd	DS Color	TFT Color
P5-90	$ 3,149	$ 3,549
P5-100	$ 3,299	$ 3,699
P5-120	$ 3,699	$ 4,099

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- 14" Mono VGA
- Mitsumi 101-key Keyboard
- Medium Tower Case
- 3COM PCI Ethernet card
- 250-Watt Power Supply

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TO DX4 100	$30
TO Pentium™ 90	$250
TO Pentium™ 100	$379

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- 80486DX2-66 CPU w/fan
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- 4MB RAM 70ns 72 pin
- Teac 1.44MB Floppy Drive
- 32 Bit EIDE w/ 2S/1P/1G (16550)
- 270MB IDE HD
- Trident w/ 1MB PCI
- 14" .28dpi 1024x768 SVGA
- Mitsumi 101-key Keyboard
- Medium Tower Case
- 230-Watt Power Supply
- 16 bit Ethernet card
- Mouse

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TO Pentium™ 100	$379

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- AMIBIOS w/ 256K Cache
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- 32 Bit EIDE w/ 2S/1P/1G (16550)
- 540MB IDE HD
- Diamond Stealth Video w/ 1MB
- 14" .28dpi 1024x768 SVGA
- Mitsumi 101-key Keyboard
- Medium Tower Case
- 230-Watt Power Supply
- Mouse

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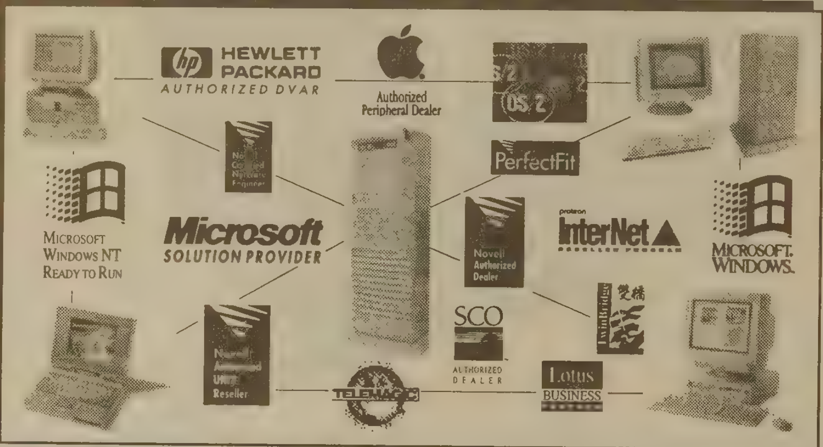
- 8MB RAM 70ns 72 pin
- 1.44MB Floppy Drive
- 32 Bit EIDE w/ 2S/1P/1G (16550)
- 540MB IDE HD
- Diamond Stealth 64 w/ 1MB PCI
- Acer 15".28dpi SVGA
- Sony 55E 2 Speed CD-Rom
- Mitsumi 101-key Keyboard
- Mini Tower Case
- 230-Watt Power Supply
- Mouse

$1229

UPGRADE...

TO DX4 100	$30
TO Pentium™ 90	$245
TO Pentium™ 100	$379



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Pentium 90 PCI File Server

- Pentium 90 PCI 256K Motherboard
- 16MB RAM, Upgradable to 64MB
- 1.0GB SCSI-II Hard Drive
- Adaptec 2940 PCI SCSI Controller
- VGA Card w/ 14" VGA/Mono Monitor
- Teac 1.44 Floppy Drive
- Medium Size Tower Case w/ 230W Power Supply
- 101 Key Enhanced Keyboard
- 10BaseT/10Base2 Combo Ethernet Card
- Quad Speed SCSI-CD-ROM Drive
- 2 Serial and 1 Parallel I/O Port

486DX2-66 VLB Workstation

- 486 DX2-66 Mhz PCI Local Bus 256K Cache Motherboard
- 4MB RAM, Upgradable to 64MB
- PCI SVGA Controller w/ 1MB
- 14" Non-Interlaced SVGA Monitor
- Teac 1.44 Floppy Drive w/FD/HD+I/O Controller
- Mini Tower Case w/ 200W Power Supply
- Mitsumi 101 Key Enhanced Keyboard & Mouse
- 10BaseT/10Base2 Combo Ethernet Card

Novell Netware V3.12

*5 User Network System ...... $5,999 (1 File Server w/ 4 Workstation, & 8 port 10BaseT hub)

*10 User Network System .. $10,759 (1 File Server w/ 9 Workstations, & 12 port 10BaseT hub)

*25 User Network System .. $22,559 (1 File Server w/ 24 Workstations, & 32 port 10BaseT hub)

Network software will be pre-loaded, configured and tested. Please call for network cable installation price quotation.

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3C503 ETHERLINK II 16 BIT COAX/TP	$109
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3C589 PCMCIA TP/COMBO	$165/199
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TRANSCEND LINK BUIILDER FMS MANAGEMENT	$339
LINKSWITCH 1000	$3355
LINKSWITCH 1200 ENET, 10BT	$4678
LINKSWITCH 500 10BT SWITCH 10RJ45, 1RS232	$2696
LINKBUILDER FMS II 12-PORT TP 12 RJ-45 ONE AUI	$561
LINKBUILDER FMS II 24 PORT TP 24 RJ-45, ONE AUI	$980
LINKBUILDER FMS II 48-PORT TP SYSTEM / 4-12 PORT UNITS	$2391
LINKBUILDER FMS II 48-PORT TP SYSTEMS / 2-24 PORT UNITS	$2089

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EIFO SWITCHING HUB 12 10BIT ENET 1 UTP FDDI (SAS) UPLINK	$5527
EIFO SWITCHING HUB 12RJ45 ENET 2 FIBER FDDI (DAS) UPLINKS	$6633
EIFO SWITCHING HUB 6RJ45 ENET 2 UTP FDDI (DAS) UPLINKS	$3683

IBM

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intel.

ETHEREXPRESS 16 COAX/TP/COMBO	$89/80/89
ETHEREXPRESS PRO 10 COMBO	$98
ETHEREXPRESS PRO/100 PILA 8465 PCI TP	$214
NETPORT II THIN & THICK/10 BT	$385
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PCMCIA ETHERNET 10 BASE T OR 10 BASE 2	$149

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TIGERHUB TP6B 10BT HUB 6RJ-45 I BNC FOR THIN COAX	$184
TIGERSTACK 3312TC ENET 12RJ45 IAUI, IBNC W/ ISTACK CABLE	$500
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ASCEND PIPELINE 25 BRI S/T INT. / U INT.	CALL/CALL
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- Logitech Mouseman
- Microsoft DOS 6.22
- Microsoft Windows 3.11

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TO Pentium™ 100	$403

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- 8MB RAM 70ns 72pin
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- 32 Bit VLB Video Card w/ 2MB
- Acer 15" .28dpi Non-Interlaced SVGA
- Mitsumi 101-key Keyboard
- Mini Tower Case w/ 230W PS
- Sony 2-Speed CD-ROM
- Sound Blaster 16 bit Sound Card
- Deluxe Speaker & Mouse
- Sigma Designs Reel Magic Lite
- Microsoft DOS 6.22 & Win 3.11

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- 32 Bit PCI Video Card w/ 1MB
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- Mitsumi 101-key Keyboard
- Zoltrix 14400 Fax/Modem
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- Microsoft DOS 6.22 & Win 3.11

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- Mini Tower Case
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- Mouse

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EXB-8205XL 8MM DAT 3.5-7 GB EXT	$1349
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EXB-8505XL 8MM DAT 7-14 GB EXT	$2209

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2742 EISA KIT FOR 14 HD	$255
2842 VLB SCSI W/ KIT	$207
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ASW-EZ SCSI 3.1 FOR DOS & WIN DOWS	$65
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BT-747S EISA FAST SCSI-2 W/ KIT 10MB/SEC.	$299
BT-946C PCI FAST SCSI-2 W/ KIT 10MB/SEC.	$259

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486DX2-66 256K VLB W/ IDE & IO (INTEL)	$294
486DX4-100 256K PCI/VLB W/ IDE & IO (AMD)	$289
PENTIUM 100 PCI/VLB 512K W/ IDE & IO	$739

American Megatrends

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ATLAS P90 256K W EIDE/IO PCI	$899

NEXGEN

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P90 256K 3VLB	$310
P80 256K 3 VLB	$290

ASUS

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486DX2-66 256K PCI W/ SCSI&IDE (AMD)	$314
486DX4-100 256K PCI/VLB W/ IDE (AMD)	$269
PENTIUM 75 PCI W/ 512K EIDE & IO (16550)	$479
PENTIUM 90 PCI W/ 512K EIDE & IO (16550)	$579
PENTIUM 100 512K PCI W/ EIDE & IO (16550)	$679
DUAL P90 ISA/PCI 256K W/ EIDE & IO 1 CPU	$659
DUAL P100 ISA/PCI 256K W/ EIDE & IO 1 CPU	$759
DUAL PENTIUM 90 EISA/PCI 256K W/ 1 CPU	$949
DUAL PENTIUM 100 EISA/PCI 256K W/ 1 CPU	$999
TRITON CHIPSET P100 256K, EIDE, IO (16550)	$679
TRITON CHIPSET P120 256K, EIDE, IO (16550)	$919
TRITON CHIPSET P133 256K, EIDE, IO (16550)	$1029
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TRITON CHIPSET P120 256K PIPEBURST CACHE	$1009
TRITON CHIPSET P133 256K PIPEBURST CACHE	$1119

intel.

ZAPPA (TRITON CHIPSET) P75 256K	$499
ZAPPA (TRITON CHIPSET) P90 256K	$539
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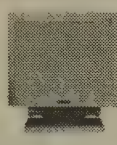

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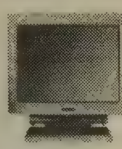

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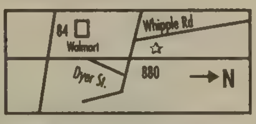

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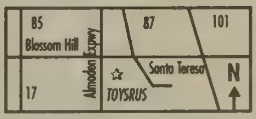

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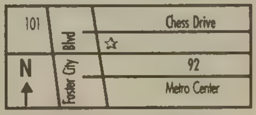

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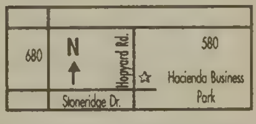

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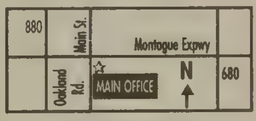

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BY ANNA COUEY

The NII Band: Network Access For All?

> "MANY OF THE NETWORKS THAT WILL FORM THE FUTURE NII WILL BE OUTGROWTHS OF THE NETWORKS WE NOW RELY ON: THOSE OWNED BY TELEPHONE COMPANIES, CABLE COMPANIES, TELEVISION BROADCASTERS, SATELLITE OPERATORS, CELLULAR...
>
> "TO A VERY SIGNIFICANT EXTENT, NETWORKS WILL BE BUILT, AND SERVICES PROVIDED, ONLY WHEN THEY CAN BE JUSTIFIED BY ANTICIPATED ADVERTISING REVENUES, SERVICE FEES, ACCESS CHARGES...
>
> "THE NII BAND WOULD ADVANCE A HOST OF PUBLIC POLICY OBJECTIVES, INCLUDING ASSURING THAT ALL SEGMENTS OF SOCIETY HAVE ACCESS TO THE 'INFORMATION SUPERHIGHWAY...'"
>
> —APPLE COMPUTER,
>
> PETITION FOR RULEMAKING "NII BAND"

A petition for a National Information Infrastructure that provides free network access to all, anywhere, anytime is now on the table at the Federal Communications Commission.

The petition, filed by Apple Computer, has been shaped in part by the community network movement. It calls for the creation of a National Information Infrastructure Band—300MHz of spectrum for high-capacity, unlicensed wireless data—to be allocated for public use.

The FCC appears to be taking the idea seriously. The agency has agreed to accept public comment by email after the formal filing deadline of July 25, 1995. "They're relaxing the rules to accommodate what they see to be a grassroots movement" in support of public access spectrum, says Dewayne Hendricks of Warp Speed Imageering, a wireless technologies company.

The idea for how public access spectrum would work is surprisingly simple—the government allocates a wide band of radio spectrum for unlicensed public use, the computer industry builds affordable multimedia communications devices that provide access to the spectrum, and the rest of us use the devices as we please to communicate: one on one, one to many, or many to many—for free.

Why Free Spectrum?

Radio spectrum is used in transmitting information via wireless technology. Regulated and allocated by the Federal Communications Commission, it is used primarily by government and broadcast industries (like radio and television).

Until recently, use of unlicensed spectrum has been allowed on bands allocated to other uses, but on the condition that it not interfere with authorized use. Nor is it protected from interference from other uses. In recent years, the FCC has begun to auction off spectrum to the highest bidder. The current rate is roughly $7 billion for 70MHz of spectrum. In other words, spectrum is not something most of us can count on having access to.

Spectrum has become an issue in the development of the National Information Infrastructure because it appears to be the only way to connect the entire country to a communications network. The Internet is built on wired connections—Internet access providers pay hefty fees for such connections; and even more for higher bandwidth to accommodate multimedia applications such as the World Wide Web and its emerging progeny. Providers pass on the cost of the connection to their users if they're a business, or absorb it if they're a university. The problem with wired connections is they are not universally scaleable, or at least not without tremendous cost.

For example, many rural communities do not have large enough populations to attract local Internet access providers, who depend on a large number of users to make a profit. This leaves rural network users who can afford it with toll call or long distance telephone rates simply to reach an Internet provider to whom they must also pay access fees. Those who can't afford it at this point simply don't have access.

Public schools, even in populated areas, typically have very few phone lines. The cost of wiring schools for even minimal Internet access is exorbitant. And buildings that have asbestos walls, wherever they are located, simply cannot be wired at all.

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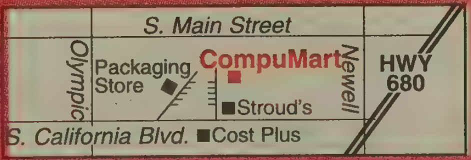

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Network Access continued...

civic organizations, have sought to resolve access to the Internet and to community information by providing online services free or at very low cost. But, if they are located in rural areas, their users are likely to incur costs just to reach them. Community networks also face wired connection costs. As a result, they rely on subsidies to support their operations.

Wireless technologies can resolve these access problems because they eliminate the need to install wires across the country to connect everyone. Thus, they are substantially less expensive to deploy.

Wireless is likely to be much more affordable for end-users also—Dewayne Hendricks envisions end-user devices as being in the $500 range within the next few years. As he points out, that's a one-time cost, compared to monthly fees to a phone company. This assumes the existence of reliable public access spectrum to keep the access costs down, and to encourage the development of wireless devices that can support high-bandwidth applications.

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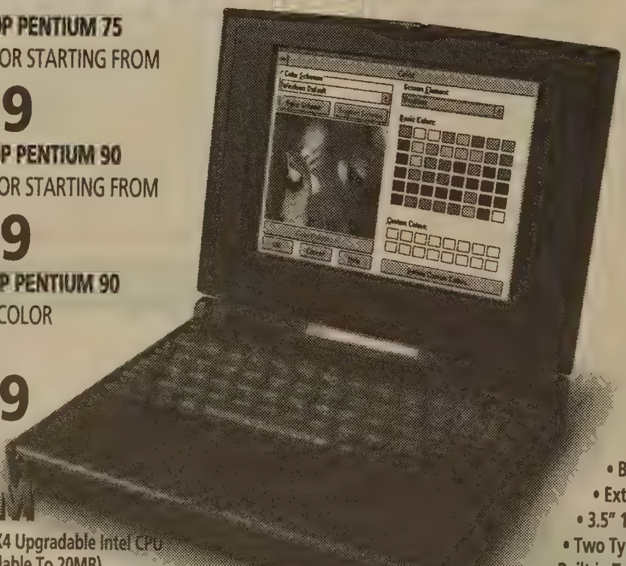

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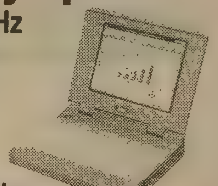

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A Design Proposal

As the Apple petition envisions it, the NII Band is a large band of spectrum, specifically allocated for unlicensed public access use and protected to provide for reliable end-user communications and to avoid interference with other uses. The NII Band, unlike most existing bands, will be designed for absolute equality of access, up to extended distances of 10–15 kilometers.

High-capacity bandwidth is necessary, the petition says, to accommodate lots of users and multimedia transmissions. It proposes that the NII Band be in the 5GHz range, and comprised of the 5150–5300MHz band, which has been allocated in Europe for unlicensed wireless local area networks (HIPERLAN) and the 5725–5875MHz band, which is currently used by unlicensed technologies; industrial, scientific, and medical (ISM) devices; and amateur operators. Using the band allocated for HIPERLAN can promote connectivity and business between the United States and Europe; the 5725–5875 band can be comfortably shared with existing uses if need be.

The spectrum must be unlicensed to avoid additional costs to end-users which could preclude their participation. Unlicensed spectrum allows any manufacturer who conforms to the minimum FCC standard to produce wireless devices that can then be sold and used by anyone. Diversity in the marketplace should mean better quality and more affordable equipment for end-users.

Unlicensed spectrum also means users don't have to pay for licenses. Aside from reduced costs, unlicensed spectrum facilitates flexible, independent use; we will be able to create communication networks ourselves, as we need them. And, importantly, unlicensed operation has a built-in assumption of equal access for all.

Equal access to the NII Band will be further enforced by the transmission technology used. The Apple petition recommends using packet

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- Mid-Tower Case

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- Diamond Stealth 64 w/1MB DRAM
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- Keytronics Keyboard
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- Med Tower Case

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SONIC ZAPPA PCI

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- 256K Cache
- 8MB RAM
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- PCI Enhanced IDE / IO Controller Card
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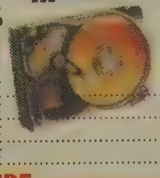

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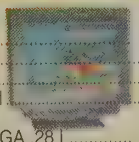

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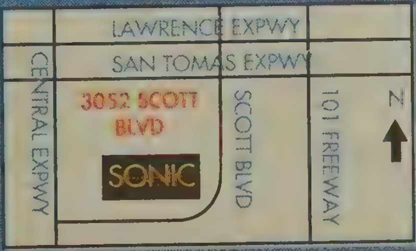

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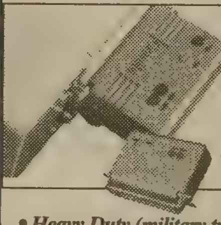

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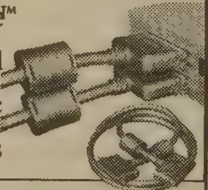

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Network Access continued...

switching (connectionless) information transport. Packet switching breaks data into small packets that are easily sent over the network and reassembled on the other end, a method that precludes large-bandwidth transmissions from monopolizing bandwidth.

The petition further argues for rules to be developed that would prohibit devices that prioritize packet transmission; as well as centralized gatekeepers that could authorize a hierarchy among packets. Apple points out that users requiring priority services can obtain them in other spectrum bands.

To accommodate a critical component of equal access—connecting users who live in rural areas without additional fees—the petition proposes that directional antennas be allowed to extend the transmission range 10–15 kilometers, without incurring power penalties. Such a setup would enable rural community networks to affordably connect users who are widely dispersed.

In fact, the long distance provision of the Apple petition was changed based on input from the community network movement. At a recent community networks conference called Ties That Bind, sponsored by Apple Computer and the Morino Institute, attendees were told that Apple had successfully petitioned the FCC for unlicensed wireless spectrum that could only carry a 50-meter range (Data PCS).

The speaker was virtually lynched on the spot. The participants told Apple they needed to be able to reach across town; and that to create sustainable systems they needed to develop a wireless local infrastructure across rural distances. Apple listened, and then altered the petition.

If It's Public Access, Who Runs It?

The Apple petition proposes that technical design and policy for the NII Band be developed by a group of industry advisors. So does a similar, but less expansive, petition for unlicensed spectrum submitted to the FCC by WINForum, an industry consortium whose members include AT&T, Northern Telecom, Motorola, Rockwell International, and others. The group will be necessary not only to develop ground rules, but to amend them to ensure equal access and protect from abuse, once the NII Band is in use.

According to Hendricks, however, Apple's idea is that the group be fairly open, like the Internet Engineering Task Force; "anybody can go to the IETF, not just technical people."

THE SPECTRUM MUST BE UNLICENSED TO AVOID ADDITIONAL COSTS TO END-USERS WHICH COULD PRECLUDE THEIR PARTICIPATION.

In the meantime, the NII Band will require public support if it is to be realized. To obtain a copy of Apple's petition, and information about contacting the FCC, see Jim Warren's article elsewhere in this issue.

The NII Band proposal outlines an approach to the National Information Infrastructure that would have a profound impact on how our country communicates and distributes information, by putting affordable tools in our hands to use as we see fit. Such an approach is a tremendous step for democratic communications, and means a realignment of power in the communications technology business. If we want it, we must act, now and as it builds. ■

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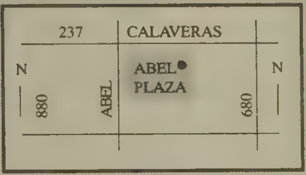

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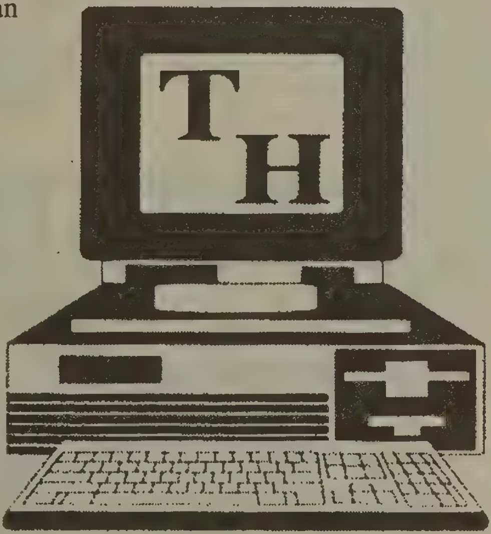

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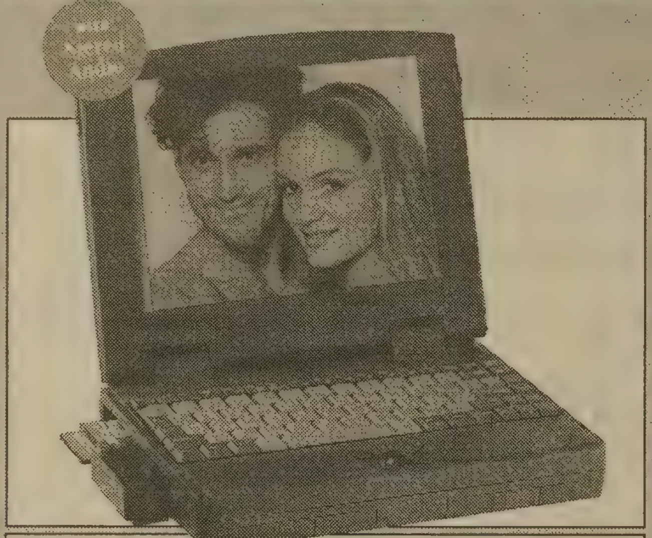

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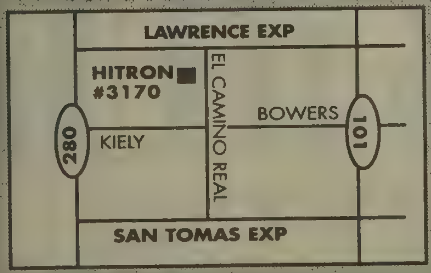

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SUMMER AT BMUG

A Little Of This, A Little Of That...

By
David
Morgenstern

This time of year in the Macintosh world, we're on hold and stuck between innings, waiting for the Boston Macworld Expo. The crowd at the weekly BMUG main meetings is anxious for the flood of new Mac models and low-cost clones expected to cook up performance in the late summer sun. And there's always plenty of speculation even among the Mac faithful over the denouement of the almost year-long hype of Windows 95. Sigh.

But do BMUGers kick back, hang up their PowerBooks and pull down a few cool ones? No way. It's only at the aprés-meeting dinners, in the questionable glow one experiences after several product demonstrations, that we ever let our hair down (those that can) and reflect on the state of really important matters—the coolest characters on *Star Trek Next Generation* spinoffs and the execrable representations of computer technology in the summer's science fiction movies.

This month we will take a peek at some odd media happenings, check out the goings-on at the Mac hackers convention, and get a rundown on some interesting software. Onward.

A Window On The Mac

In the past, I have commented on how old habits are hard to break, for life in general as well as in the computer industry. It's tough to look at our beliefs and actions and then actually change longtime patterns of behavior.

Routines and rituals are a good thing for the most part. I check both ways before crossing the street. I always lock the driver's-side door with the key, so I won't lock the key inside the car. I save my work after every few sentences just in case there's an unexpected power outage (caused by my foot pulling the plug out from the wall as I fall off my chair to grab the cat). These are all extremely good and prudent habits.

But the same cannot be said for the hard-working crew of computer journalists, corporate-information technocrats, and superstore salespersons who have ignored the Macintosh for the past ten years.

After giving it a look-see in 1984 or '85, they put the Mac into the it-will-never-fly category and have never revisited it since. If someone asks them the most fundamental question—Which computer should I buy?—they are steered to a flavor of Intel-based PC running Microsoft Windows. What else is there, they say?

This situation has always been emotionally tough on BMUGers. We give our good counsel to acquaintances, friends, and family, only to see them swayed by the momentum of the Intel/Microsoft bandwagon, the questionable wisdom of "real" experts, and the rock-bottom prices of entry-level machines. We sigh and say a little prayer for them. They will need it.

But in the past few months, in the middle of the Windows 95 love-fest, a very odd series of unconnected occurrences has made the earth shake for Macintosh aficionados. Industry mavens are actually taking a look at the real life of users and writing about this process. Could they have been infected by the BMUG spirit, or read our newsletter? It could happen. Or perhaps they got tired of answering the ever-rising number of calls on the personal technological-support line from their family and friends.

Here are a few of their comments:

- In the *San Francisco Examiner* last June 28, Scott Rosenberg wrote a long article recommending the Mac to new users. He described his efforts to play Windows CD-ROM titles and said, "Last week I sat down at a PC to review the hot new *Johnny Mnemonic* CD-ROM game. It took an hour of head-scratching on the part of two experienced computer journalists to get the thing properly installed—and once it started it refused to proceed past the end of the first scene.

"But then, I never did get *Myst* to work until I got a version to play on my Macintosh."

- Earlier in the same month, an article in the Personal Technology section of the *Seattle Sunday Times* came to a similar conclusion. Remember that this is the heart of darkest Microsoft territory!

"Which computer do I recommend? I think you should get the same kind of computer that your most technically astute friend uses; a friend you can call at midnight on Sunday when you really get stuck. If you buy a Mac, you won't need an expert, since you won't get stuck nearly as often. And if you don't have a technical friend, you will be much better off with a Mac—with some exceptions that I will discuss later.

"Which is easier to use? Is the Mac really that much easier to use? Consider this: One quarter of all the questions that Patrick Marshall has answered in his Q&A column in *The Seattle Times* deals with PC problems that never occur on a Macintosh...."

- An astounding article in the June issue of *Windows User* was written by Sean Geer, with the title, "Mac The Nice." Geer had a call from a friend asking for some help fixing a computer. Thinking he would greet a Windows system, he instead found a new Power Mac waiting. No problem. Or not much of a problem.

Although Geer is familiar with the Mac, he admitted that "anything newer than a IIfx running System 6 is something of a mystery to me." And in the process of helping his friend he "discovered some pretty astonishing things."

"I shan't trouble you with the precise details of this adventure, but I can tell you that Macintoshes (even Power versions) are prone to the same sorts of system crashes that appear so regularly on PCs, and that their causes appear to be much the same. I can also tell you that Macintoshes are capable of booting from a CD-ROM drive. I can exclusively reveal that reinstalling the Macintosh System 7.5 operating system is an almost surreally pleasurable thing to do.

"And, finally, I can tell you that the Macintosh user interface is a thing of great beauty—truly Apple's Esmerelda to Microsoft's hunchback."

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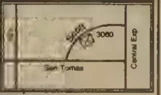

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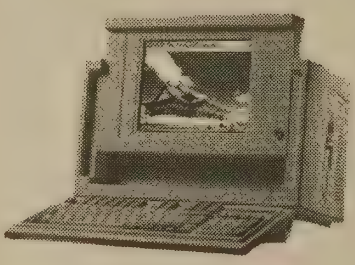

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sions from out of the blue are too good to be true! But what is going on here? Could this be the beginnings of a trend?

Less Pain, More Gain

Maybe so. I suggest that the Now Generation has finally discovered the computer and found it wanting.

New users nowadays are not content to simply crank up the word processor and scratch off a letter to grandma, or begin their life's work on a spreadsheet from hell. They have seen Paris on the big screen, in school, and on the tube; they are not willing to begin their computer journey back at the farm. They want to get out surfing on the Internet. Now. They want to check out their cousin's World Wide Web page, and crank up the multimedia CD-ROM player. Now. They want to blast some digital video, instead of "simple" sound and graphics. Now.

> We give our good counsel to acquaintances, friends, and family, only to see them swayed by the momentum of the Intel/Microsoft bandwagon, the questionable wisdom of "real" experts, and the rock-bottom prices of entry-level machines. We sigh and say a little prayer for them. They will need it.

Your run-of-the-mill PC can't give you all of this without a considerable level of pain. Some say pain and stress is a growth process. But it tends to be an experience that is shared with the owner of a system and their best friend, coworker, neighbor, or relative that knows anything about computers. Mac users have problems too, but they are usually less painful and more easily shared. That's why BMUG is so much fun—there's a lot of sharing of information.

Unlike the Mac, flavors of computers that run Intel-compatible chips have come only lately to user issues. PC machines have stressed speed and performance, but have lagged behind the Mac in ease of use. The Macintosh began its life with a foundation of hardware and software integration, graphical user interface, and quick setup. The early Macs came with a single short manual and an audio tape to help with the setup. The cassette wasn't really necessary to get going with the system, but it reassured some new users that thought there should be more. Where's the beef, er—manuals?

Apple has over the years added many important technologies that ship standard with the Macintosh, such as SCSI, built-in LocalTalk networking, QuickTime digital video, and speech-to-text conversion; the latest addition is QuickTime 3D, a system-level way of handling three-dimensional graphics. But all of these goodies rest on the great total system that is Macintosh.

BMUGers are happy for Windows users; there are a lot of great fea-

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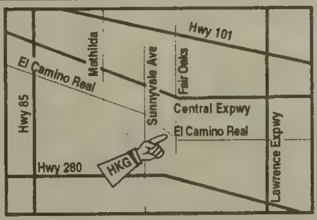

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tures in Windows 95. But it ain't a Mac. Perhaps the "rediscovery" of the Mac by PC devotees will steer some lucky new users over to the Mac side of the aisle.

Make My Hack

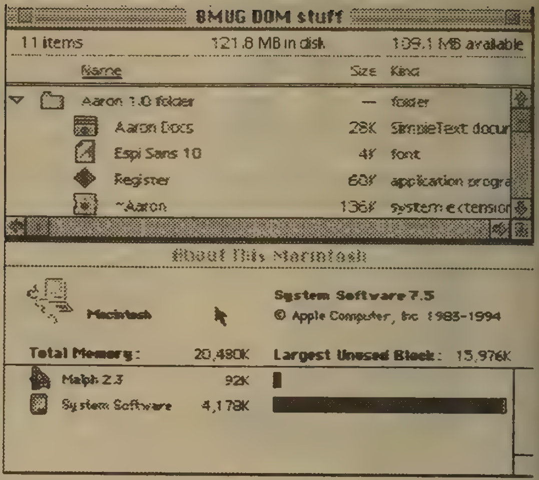
Every year the brightest Mac programmers from around the world gather together in Ann Arbor, Michigan, for MacHack, a week of summer hacking and all around Mac-lovefest. The conference is a great place for Apple system engineers, third-party developers, and freelance code-slingers to shoot the breeze, get some answers, and create some software on the spot during all-night group programming sessions. There is usually a contingent of members from BMUG's programming special interest group in attendance.

The Best Hacks programming contest is the highlight of the event. Programs written before the conference, as well as during, are shown and judged. Some of the better hacks make their way into shareware and even commercial products afterward.

Some of the hacks are gags or fakes, such as a Nerf crossbow controller application. But here are a few of the better offerings:

- Greg Landweber, the author of the Greg's Buttons desktop customizer, unveiled a couple of interesting programs. Aaron 1.0 is an extension that gives you the buttons, folders, and windows found in the forthcoming Copland operating system. You can see the before and after in Figure 1 and Figure 2, respectively.

Greg's Hack was another interesting extension that performs anti-aliasing routines to text displayed on the screen. Anti-aliasing uses shades of gray to slightly blur the hard edges of PostScript or TrueType fonts, which reduces the jaggies and makes small text easier to read and smooths large text. Unfortunately, the anti-aliased fonts have a different line-spacing than plain fonts. Greg said that text may appear in the wrong position, and word processors may mis-


BMUG DOM stuff
11 items 121.8 MB in disk 109.1 MB available
Name Size Kind
Aaron 1.0 folder — folder
Aaron Docs 28K SimpleText docur
Espi Sans 10 4K font
Register 60K application progra
~Aaron 136K system extensior
About This Macintosh
Macintosh
System Software 7.5
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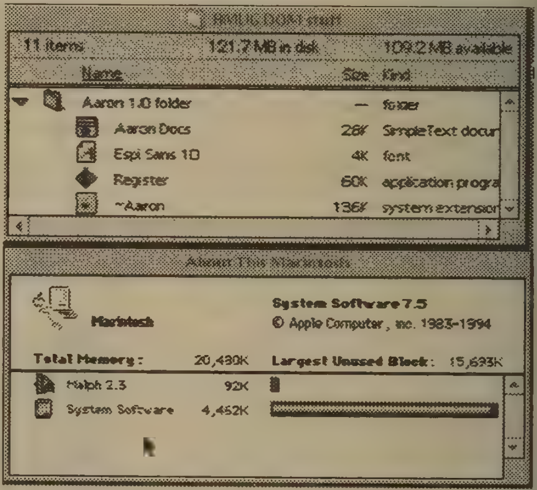
Total Memory: 20,480K Largest Unused Block: 15,976K
Malph 2.3 92K
System Software 4,178K

Figure 1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Name Size Kind
Aaron 1.0 folder — folder
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Register 60K application progra
~Aaron 136K system extensior
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Macintosh
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Figure 2

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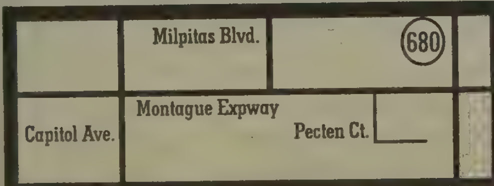

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place the insertion point. Good printer output or glasses? Take your pick!

- Victor Tan and BMUG's own Leonard Rosenthol wrote CyberFinder, which lets you create a new type of Finder alias pointing to an Internet Web page or ftp site. You hold down the Shift key and the New Folder command becomes a New URL (Universal Resource Locator) command that creates a new kind of Internet resource document. When you double-click on the URL alias, your Web browser, or ftp client software, launches and you're connected.

The CyberFinder URL files work just like Finder aliases, and you can change them with the Get Info command, or rename them. Each type of URL is given a particular icon so you can eyeball its type, but as with a normal alias, you can always paste another icon over it.

- Don Brown of CE Software lifted an idea from Windows 95 in NewStuff. Like CyberFinder, NewStuff also alters the New Folder menu item. It adds a New Item command, with a hierarchical menu that lists documents of different types. It's easy to add extra templates by placing them in a folder in the System.

Bytes And Pieces

Here are some of the latest comings and goings in the Mac world this month:

> **PC** machines have stressed speed and performance, but have lagged behind the **Mac** in ease of use.

- **From the RTFM (read the f@#&in' manual) file.** Reportedly overheard at MacHack: "Call a ReadMe file 'Power Users' and everyone will read it. But name it just 'Read Me,' and no one will."
- **Don't call it a seedy ROM.** The CD-ROM Setup 5.1.1 update, released in July, is required for use with the 600e, Apple's new 4X-speed CD-ROM drive. But it also adds support for multisession discs and a new flavor of audio CDs called CD Plus or Enhanced CDs. The Plus and Enhanced discs are starting to make the scene; they can include computer data, such as a QuickTime video, liner notes, or lyrics along with the regular audio tracks, like their larger laser disc cousins. Very cool.
- **It's a stretch department.** The latest Performa models were highlighted at a big bash in New York City that showed off the latest Macs, Internet and eWorld sites, multimedia games, and educational software. The bash was lead by hip performance artist, Laurie Anderson.

Am I the only person that finds Anderson's connection with this particular lineup a bit strained? I can see the multimedia link and the Internet, but she certainly doesn't spring to my mind when I hear the phrase "children's educational software!" Hello!

- **Not-butt-headed composer.** After the problems with the Carl Sagan code-named hardware, Apple legal has reportedly been telling employees not to say that the future Copland operating system is named after the famous American composer, Aaron Copland. There's an old Jewish saying that says, "With a lie, only children can be rocked to sleep." So perhaps only the very, very young of heart will be persuaded by legal's Copland line, since the other recent OS releases were code-named Mozart, Beethoven, and Gershwin. ■

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What Is BMUG?

BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG, and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose. Check the Announcement Line at (510)549-2684 ext. 8.

The BMUG Office, 2055 Center Street (a half block from the BART station), is open to the public 8:30 am–4:30 pm. Please come by, say hello, and meet other members.

The BMUG Helpline provides volunteer technical assistance and telephonic hand-holding for our members. If your question can't be answered on the spot, we try to get you in touch with someone who can help. Improve your Macintosh education and help others by becoming a Helpline volunteer!

BMUG has one of the most up-to-date, comprehensive software libraries around with hundreds of disks filled with the latest versions of public domain or shareware programs. BMUG also produces CD-ROM collections, including the digital video *TV-ROM ™Too*, and the *BMUG PD-ROM.*

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BMUG can be found on most online services, including e•World. BMUG can also be reached through the Internet network at *UG0001@applelink.apple.com*.

To get some further information about BMUG please write to: BMUG, 1442A Walnut Street, #62, Berkeley, CA 94709. If you prefer to phone our business office, call (510)549-BMUG, or fax (510)849-9026.

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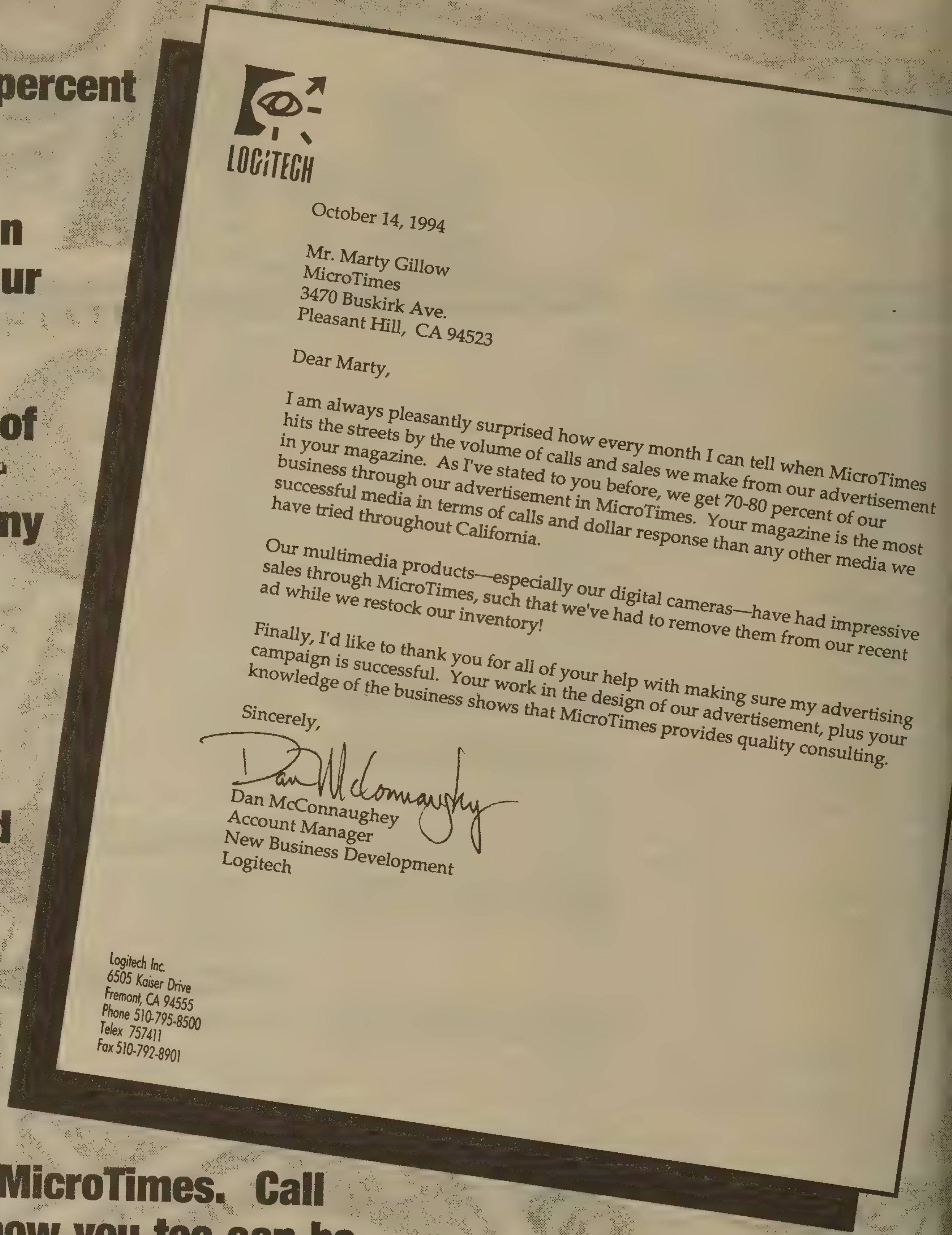
I'd like to remind your readers to visit our factory outlet store in Fremont."



LOGITECH

October 14, 1994

Mr. Marty Gillow
MicroTimes
3470 Buskirk Ave.
Pleasant Hill, CA 94523

Dear Marty,

I am always pleasantly surprised how every month I can tell when MicroTimes hits the streets by the volume of calls and sales we make from our advertisement in your magazine. As I've stated to you before, we get 70-80 percent of our business through our advertisement in MicroTimes. Your magazine is the most successful media in terms of calls and dollar response than any other media we have tried throughout California.

Our multimedia products—especially our digital cameras—have had impressive sales through MicroTimes, such that we've had to remove them from our recent ad while we restock our inventory!

Finally, I'd like to thank you for all of your help with making sure my advertising campaign is successful. Your work in the design of our advertisement, plus your knowledge of the business shows that MicroTimes provides quality consulting.

Sincerely,

Dan McConnaughey

Dan McConnaughey
Account Manager
New Business Development
Logitech

Logitech Inc.
6505 Kaiser Drive
Fremont, CA 94555
Phone 510-795-8500
Telex 757411
Fax 510-792-8901

You get more for your dollar with MicroTimes. Call us and find out how you too can be successul with the world's largest regional computer magazine!

MICROTIMES™

(510) 934-3700
(408) 244-4400

WOW!

PC CINEMA P120

$3,100.00

Asus P55TP4XE M/B 256K Pipe-line Burst Cache
intel Pentium 120 microprocessor
MPEG CARD!!
16MB RAM
3.5" FDD
Quad-speed CD-ROM Drive
Western Digital 1.2GB IDE HDD
#9 4MB VRAM PCI
Sound Blaster AWE 32
80W Stereo Speaker
101 Key, MS mouse, Pentium Cooler
Mid Tower w/250W double fan

MPEG-PC!

NEW

PENTIUM 133

$2,770.00

Asus P55TP4XE M/B
256K Pipeline Burst Cache
intel Pentium 133 MHz CPU
16MB RAM
3.5" FDD
Quad-speed CD-ROM Drive
WesternDigital 1.2GB HDD
ATI Mach 64 VRAM 2MB
Sound Blaster AWE 32
101 Key/MS Mouse
Pentium Cooler
50W Speaker
Mid Tower Case w/250W
Double fan

PC CINEMA

PENTIUM 120

$2,640.00

Asus P55TP4XE M/B
256K Pipeline Burst Cache
intel Pentium 120 MHz CPU
16MB RAM
3.5" FDD
Quad-speed CD-ROM Drive
WesternDigital 1.2GB HDD
ATI Mach 64 VRAM 2MB
Sound Blaster AWE 32
101 Key/MS Mouse
Pentium Cooler
50W Speaker
Mid Tower Case w/250W
Double fan

日本の皆様へ
World PC EXPO'95
9月27日（水）～29日（金）
千葉幕張メッセにて出展致します。
この機会に是非、見て、触れて、遊んでみて下さい。
素敵な特典を用意してお待ち致しております。

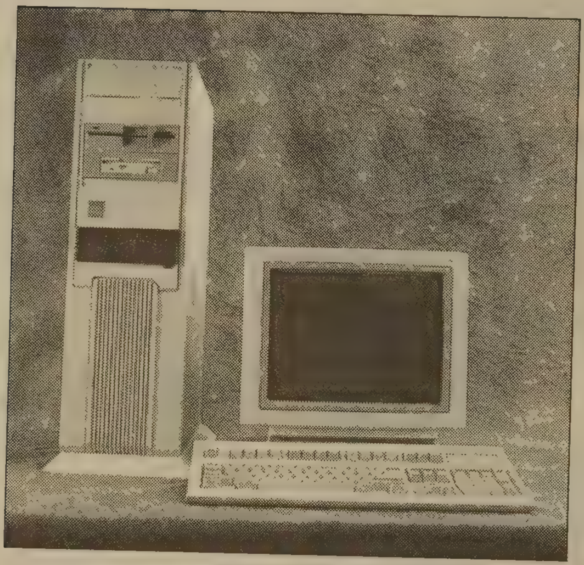
BBT INC.

-BigBang Technology Inc. 100 Century Center Court, #503,San Jose CA95112
408-453-8425 FAX:408-453-9115
E-mail: bbt1@ix.netcom.com

Terms & Condition:Price & Company policy subject to change w/o notice. Price can reflects cash discount.

ACCESS
COMPUTER TECHNOLOGIES

intel inside pentium PROCESSOR



Pentium is a registered trademark of Intel Corporation.

Intel 100MHz Pentium PCI/VLB

- Intel Pentium PCI Motherboard w/ 100MHz processor
- 8MB RAM expandable to 128MB
- 256K Cache memory
- Conner 850MB IDE hard drive
- 3.5" 1.44MB Floppy Drive
- Impression 14" non-interlaced SVGA monitor
- Trident PCI 1MB graphic card
- Mini tower case w/ power supply
- 101-key enhanced keyboard
- 1 year parts and labor warranty

Complete System!

$1699

GREEN 486DX2-66 VLB

- Green 486DX motherboard
- 256K Cache memory
- 0MB RAM expandable to 64MB
- AMD DX2-66 processor
- 3.5", 1.44MB floppy drive
- 3 VLB expansion slots
- 2 serial, 1 parallel and 1 game port
- VLB IDE HD/FD Controller
- Mini tower case
- 101-key enhanced keyboard
- 1 year parts and labor warranty

$377

GREEN 486DX4-100 VLB

- Green 486 VLB motherboard
- 256K RAM cache memory
- 4MB RAM expandable to 128MB
- AMD DX4-100MHz CPU
- Maxtor 540MB IDE hard drive
- 3.5" 1.44MB floppy drive
- 3 VLB expansion slots
- Impression 14" non-interlaced SVGA monitor
- Trident VGA 1MB graphic card
- Mini tower case w/ power supply
- 101-key enhanced keyboard
- 1 year parts and labor warranty

Complete System!

$999

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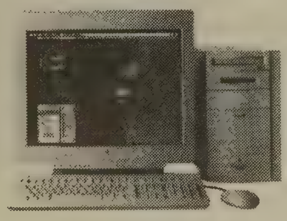
Apple PowerMac™... *Powerful Performance!*



PowerMac™ 6100
- PowerPC™ 601+ FPU
- 66MHz speed
- 8MB RAM exp to 72MB
- 500MB Hard drive
- DRAM Video Support
- 8 built-in ports

CAM6166 **$1599**

PowerMac™ 7100
- PowerPC™ 601+ FPU
- 80MHz speed
- 8MB RAM exp to 136MB
- 500MB Hard drive
- 1MB VRAM/Built-in Ethernet
- 3 NuBus expansion slots

CAM7180 **$2299**

PowerMac™ 8100
- PowerPC™ 601+ FPU
- 100MHz speed
- 8MB RAM exp to 264MB
- 700MB Hard drive
- 2MB VRAM
- Built-in Ethernet & Apple LocalTalk Connection

CAM8100 **$2599**

PowerMac™ 9500
- PowerPC™ 604+ FPU
- 120MHz speed
- 16MB RAM exp to 766MB
- 1000MB (1GB) Hard drive
- 4X internal CDROM drive
- 2MB VRAM
- 6 PCI slots

New!

CAM95120 **$4499**

EPSON

ActionNote 880C
Color Notebook

- Cyrix 486DX2/80
- 10.3" DSTN Passive Color
- 8MB RAM exp to 24MB
- Built-in 14.4 faxmodem
- **ActionPoint trackpad**
- Built-in SoundBlaster Pro
- 340MB hard drive
- 1 year waranty
- DOS, Windows, ClarisWorks, Compuserve, America Online

Over $550 worth of software

NE880C **$2588**

ActionNote 660C
486DX2-66, 4MB RAM, 340MB HD, DSTN..............................$1799

EPSON

ActionNote 500C
486 Color Notebook under $900!

- 486SLC-50MHz
- 4MB RAM
- Memory exp to 8MB
- 120MB HD
- DSTN color screen
- 1 year warranty

Best Deal in Town!

NE474211 **$899***

**DOS, Windows not included; With DOS & Windows for $949*

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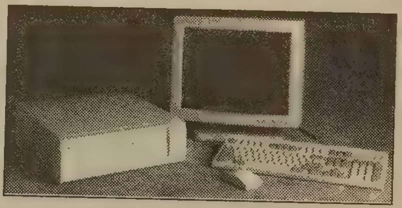
EPSON
NX Multimedia System



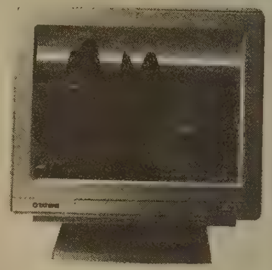
- Intel 486DX2-66MHz
- 8MB RAM expandable to 128MB
- 240MB hard drive
- SVGA w/ 2MB Video RAM
- Sound Card & CD ROM Drive
- MS-DOS, WIN, Keyboard & mouse
- 1 year mfg's on-site warranty
- Monitor not included

Great Deal!

I432361D **$799***

**2nd inventory system*

TATUNG®
CM-14VHE 14" Color Monitor



- 14" Color Non-interlaced
- 1024x768 resolution
- 0.28mm dot pitch
- 2 year warranty

New!

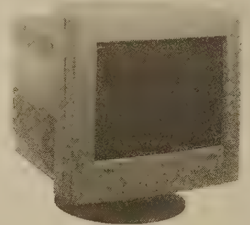
$249

CM-15VDE 15" Color Monitor

- 1024x768
- Non-interlaced
- .28mm dot pitch

$349

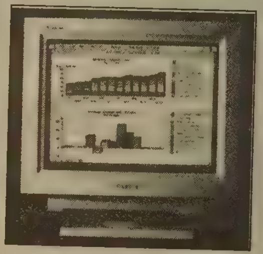
NEC
MultiSync Monitors



- 0.28mm dot pitch
- Energy Star compliant
- 3 year warranty

15" MultiSync Monitors		
XV15	1280x1024 @ 60Hz	$ 429.00
XE15	1024x768 @ 76Hz	529.00
17" MultiSync Monitors		
XV17	1280x1024 @ 60Hz	759.00
XE17	1024x768 @ 76Hz	1059.00
XP17	1280x1024 @ 76Hz	1099.00
21" MultiSync Monitors		
XE21	1024x768 @ 60Hz	1799.00
XP21	1600x1200 @ 70Hz	2199.00

SONY
CPD-15sf
15" Trinitron Color Computer Monitor



- .25mm dot pitch
- 1280x1024 resolution
- 60Hz refresh rate
- 3 year warranty
- Color temperature control
- Anti-glare Silicon coating

energy EPA POLLUTION PREVENTER

$449

1425	14", 1024x768, .25mm	$ 299.00
17sf	17", 1280x1024, .25mm	849.00
17se	17", 1600x1200, .25mm	1029.00

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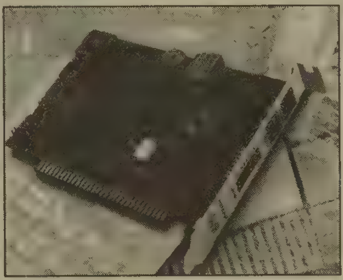
USRobotics
The Intelligent Choice in Data Communications

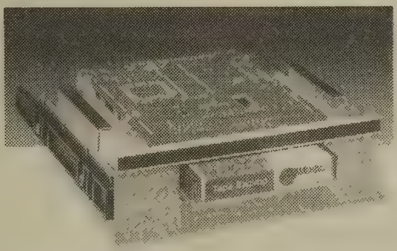


Sportster SI
14.400 internal faxmodem

$59

28,800	Internal Version, V.34	$ 199.00
28,800	External Version, V.34	209.00
14,400	Internal Version	89.99
14,400	External Version	109.00

COLORADO MEMORY SYSTEMS INC.



DJ-20 250MB
Internal Tape Backup

- Fast backup time
- QIC 80 compatible
- Connects to FD controller

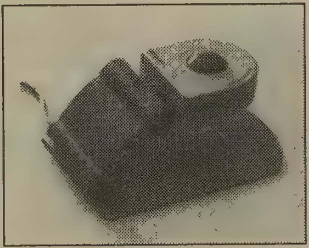
$118

DJ-35C	350MB Internal	$139.00
JT-35C	350MB Ext Trakker	289.00
DJ-50	1.4GB Internal	289.00

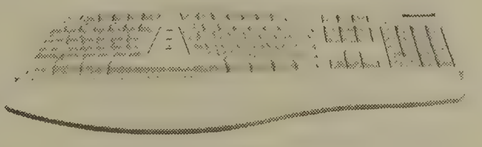
Microsoft

BallPoint Mouse w/ Desktop Stand

PMS085D **$12.00**



Ergonomic Design!



Natural Keyboard

PKB001 **$69.99**

Hard Drives

Quantum

240MB, IDE, 14ms, HDQ240	$ 99.00

Maxtor

420MB, 12ms, 7420AV	129.00
540MB, 12ms, 7540AV	158.00
850MB, 12ms, 7850A	179.00
1.2GB, IDE, 12ms, 71060	249.00

CONNER

425MB, 13ms, CFS420A	129.00
540MB, 12ms, CFS640A	159.00
850MB, 12ms, CFS850A	179.00

WESTERN DIGITAL

250MB, IDE, HDW2250	99.00
540MB, IDE, HDW2540	169.00
850MB, IDE, HDW2850	199.00
1.2GB, IDE, HDW31200	289.00

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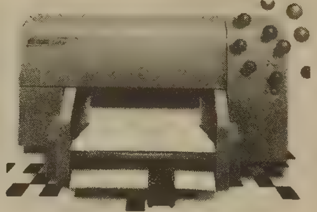
HEWLETT PACKARD



DeskJet 660C

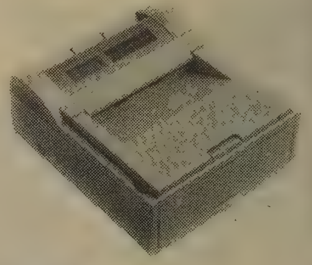
Color Ink Jet

- 4ppm (BW), 1.5ppm (Color)
- 600dpi resolution
- 14 built-in TrueType fonts
- 3 year warranty

HP2890A **$429**

DeskJet 540	Inkjet	$ 199.00
LaserJet 4L	300dpi	499.00
LaserJet 4+	12ppm, 2MB	1339.00
LaserJet 4V	16ppm, 600dpi	1799.00
LaserJet 5P	600dpi, 2MB	849.00
LaserJet 5MP	Mac compatible	1029.00

OKIDATA



OL-400e Laser Printer

PC MAGAZINE EDITORS' CHOICE

- 4PPM printing speed
- 300dpi resolution
- 512K RAM
- 5 year printhead warranty
- 100-sheet paper tray
- 44 resident fonts
- Auto switching interface

$50 rebate

**Price includes rebate, thru 8/31/95, in store price $349*

$299*

brother We're at your side.

Laser Printer

HL-630, 6ppm, 300dpi	$ 399.00
HL-645, 6ppm, 1MB RAM	459.00
HL-660, 6ppm, 600dpi	699.00

Multifunction Printer

MFC-4000ML 3-in-1!	899.00
MFC-4500ML 5-in-1!	969.00

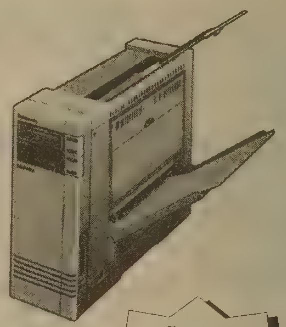
Fax Machines

820 50 page memory	389.00
2500 Laser Fax	799.00

Label Printer

P-Touch 12	99.00
P-Touch XL35	199.00

Panasonic Office Automation OA



KX-P4400 Laser Printer

- 4 pages per minute
- 300 x 300 dpi resolution
- 1MB RAM memory
- 100-sheet multi purpose tray

Laser under $300!

$269*

* Factory refurbished w/ manufacturer's warranty

KX-P2023	2nd Inventory Printer	$129.00*
KX-P2123	2nd Inventory Printer	139.00*

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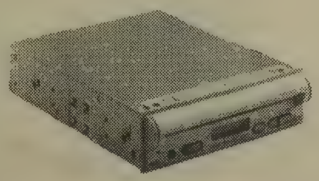


6Xi SCSI CD ROM Drive

- 900kb/sec data transfer
- 145ms access time
- 256KB cache
- 2 year warranty

New!

HDN502 **$439**

TOSHIBA

4X IDE
CD-ROM Drive

HDT5302 **$179**

TEAC

4X IDE
CD-ROM Drive

HDT55A **$179**

PIONEER®
The Art of Entertainment

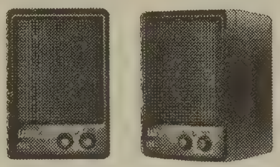
DRM-624X CD-ROM Changer

- SCSI II interface
- External version
- 150ms access time

6-disc changer for PC & Mac!

HDP624 **$649.99**

Labtec



SS-100 Amplified Stereo Speakers

- Deluxe bass & treble booster
- Individual volume control
- External DC jack

ASL100 **$8.00**

CREATIVE
CREATIVE LABS, INC.

DISCOVERY CD 4X

- SoundBlaster 16 Stereo Sound Card
- 4x CD ROM drive
- Stereo speakers
- 20 software titles including Rebel Asasult, 3D Dinosaur Adventure

ADS125 **$318**

Discovery CD New Edition ADS124 .... $229.00

CREATIVE
CREATIVE LABS, INC.

SoundBlaster 16 Value ADS115 **$82.00**
- 16-bit stereo sound card
- 20-voice stereo FM synthesizer
- Stereo Digital Mixer
- MPU-401 UART interface

Modem Blaster 14.4 .... ADS141 **$82.00**
Modem Blaster 28.8 .... ADS144 **$179.00**
- 4 online game on 1 CD
- Chameleon Internet software
- Delrina communication software
- On-line service software

SoundBlaster AWE32 .... ADS116 **$269.00**
- 16-bit CD Quality stereo recording and playback
- 4MB RAM on board expandable to 28MB
- Orchestral Quality Advanced Wave Effects & Synthesis
- Programmable Advanced Signal Processor

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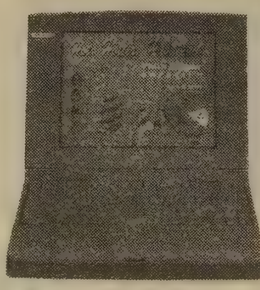


Versa S®
486 Color Sub-Notebook

- 486SX-33MHz
- 4MB RAM, 210MB HD
- DSTN LCD Display

NBN33D **$1398**

Versa V 486DX Color Notebook

DX2-50 4/340MB, DSTN, N7104541	$1799.00
DX2-50 4/540MB, TFT, N7101551	2399.00
DX4-75 4/340MB, TFT, N7201541	2299.00

IBM

ThinkPad 701C
Color Notebook

- 486DX4-75MHz
- 8MB RAM exp to 24MB
- TrackWrite™ expanding full size keyboard
- 540MB hard drive
- 10.4" TFT color screen
- 14.4 internal fax modem
- Speaker phone & answering machine
- Integrated infra-red transceiver
- Trackpoint™ Pointing device

$4420

ThinkPad 755C DX4-75, 4/340 TFT N1755C	$3499.00

NEC

Versa® P
Pentium Color Notebook
Hi-Res Color Display!

- Intel Pentium 75MHz processor
- 8MB RAM exp to 40MB
- 810MB hard drive
- Hi-Res TFT Color display w/ 256 colors @ 800x600
- Built-in Microphone and Speaker
- Front mount trackball
- 3 year warranty

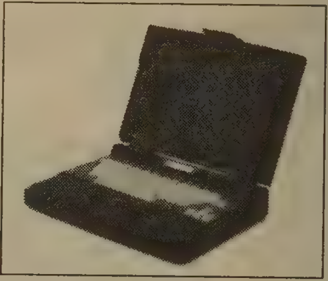
Multimedia Ready!

N4907568 **$4999**

VERSA M

DX4-100, 540MB HD,True Color, N5806552	$3799.00

Canon



InnovaBook 150C
Color Notebook

- 486DX2-66MHz
- 4MB exp to 32MB
- DSTN passive color LCD
- 1MB video memory
- Built-in audio features
- DOS, Windows, Sidekick & more
- 1 year roadside warranty

9.5" Screen!

NBC150C **$1899**

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adaptec

Slim SCSI

SlimSCSI
adaptec

- Extra thin cable
- Ultra rugged card
- Adaptec EZ-SCSI software
- PCMCIA Type II

PCA460 $229.99

Panasonic
Office Automation OA

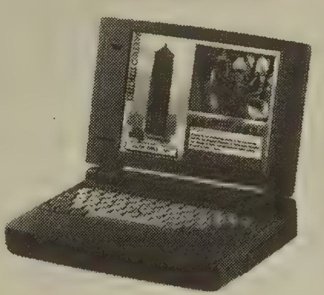
PCMCIA CD-ROM Play
ortable CD-ROM Player
/ PCMCIA Card

- 2X Speed drive
- PCMCIA Type II card
- SCSI-2 compatible
- Battery operated
- 2 year warranty

HDP720 $299

TOSHIBA

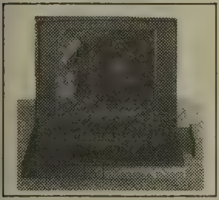
Satellite Pro
400CDT
Multimedia Notebook



- Pentium 75MHz Processor
- 8MB RAM expandable to 40MB
- Quad Speed CD ROM drive
- TFT Color Display
- 810MB hard drive
- 1MB Video RAM
- MIDI, WAV & SoundBlaster compatible

4X CD-ROM Drive!

NT400 $4499



EVEREX
EVER for EXcellence℠

StepNote Color Notebooks

- Intel processor
- 4MB RAM
- DOS & Windows included
- Built-in 1MB VGA
- Multimedia ready

DX2-50MHz

340MB, DSTN, NBV250PX	$1819.00

DX2-66MHz

340MB, TFT, NBV266AX	2409.00

DX4-100MHz

340MB, TFT, NBV100AX	2569.00
514MB, TFT, NBV100AY	2739.00

TOSHIBA

New Notebooks!

PORTÉGÉ 610CT
w/ 90MHz Pentium Processor

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Security In Groupware Systems

By Robert Moskowitz

A Look At How Lotus Notes And Novell GroupWise Provide Security And Authentication

If you and I are exchanging messages, we have two concerns on our mind. First, we want to send each other messages that no one else can read. Second, we want to be sure the messages we receive from each other have not been altered or read by others en route.

In computer terms, these features are often called "security" or "privacy," and "authentication" or "non-repudiation." Although these concepts come into play primarily for the messages we exchange over networks, it's obvious that maintaining any level of privacy within our email messages also requires that we extend the same degree of privacy to the content of our email when it's in the form of files we create or receive, and then store.

If we don't, our situation is a lot like putting our money in a heavy-duty strong-box while leaving the combination or the key in plain sight!

Although these concepts are simple and similar for all computer users, the details of how you actually achieve and maintain privacy and security depends a great deal on the network, email, and computer environment in which you are working.

In today's market, the fast-growing collection of groupware products tends to be a little more forward-looking than the networks on which it operates.

Based on my recent conversations with vendor representatives and users in the field, here are descriptions of how Lotus Notes and Novell GroupWise handle these important privacy and authentication issues.

Security In Lotus Notes

Notes uses selective access and data encryption capabilities to allow users to send private messages conveniently across a network, and also provides a measure of access control at the server level, allowing me to put in a document only you can read.

One of the nicest features about Notes' access control and file encryption is that it operates on partial as well as complete files. In practice, this means a complex document can be set up with paragraphs or sections having differential security. We can all read the first paragraph, for example, but only Joe can read the second paragraph, only Sally can read the third paragraph, and only Ishmael can read the fourth paragraph.

Typically, Notes file names are left in plain view, but the contents are encrypted so only those you want to have access can actually view the contents. Unauthorized users who open the file see the blocked material as encrypted text which can show up as white space or can even disappear entirely for those not entitled to see it.

A "signature" feature which is part of every Notes file provides incontrovertible proof of who actually created it.

While these features are all valuable and important, the understanding and practical steps necessary to accomplish all this can be a little complicated for some users to master.

Let's start with document protection. Your first step in Notes is to create a key you'll use to open and close the documents you want to store privately. If you wish, you can give your key to other people, and all of you can use it to encrypt and decrypt the same documents within the Notes system.

When you want to send a private message, you switch to Notes' built-in public-key encryption system. Prior to sending a message, you click on a box labeled "sign and seal." This uses your private, RSA-technology encryption key to encode a small part of your message, creating a CRC-like value for the document that, upon receipt, Notes will use to verify that the message is really from you.

Every field in a Notes message has flags that accompany it, and you can set these flags to tell the system which parts of the message are included in the "sign and seal" process. The sys-

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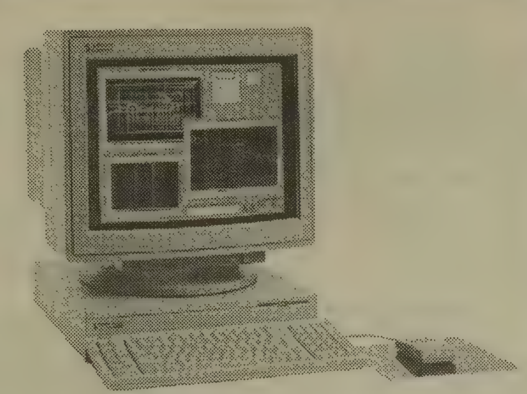

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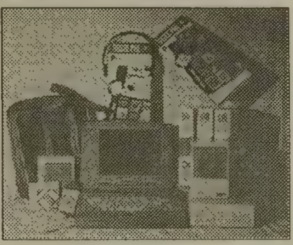

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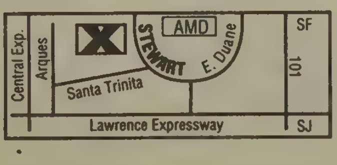

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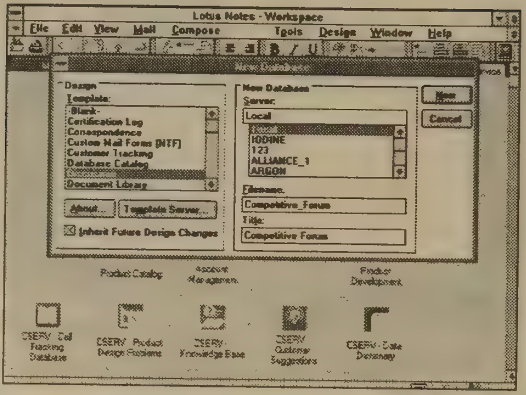

Lotus Notes - Workspace

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- Correspondence
- Custom Mail Forms (NTF)
- Customer Tracking
- Database Catalog
- Document Library

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New Database

Server: Local

- IODINE
- 123
- ALLIANCE_1
- ARGON

Filename: Competitive_Forum

Title: Competitive Forum

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Mail
Compose
Tools
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Help
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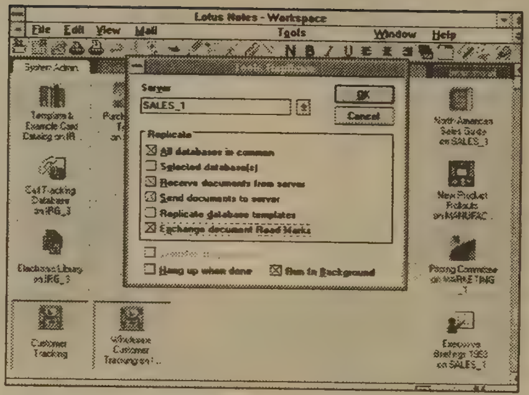

Lotus Notes - Workspace

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☒ All databases in common
☐ Selected database(s)
☒ Receive documents from server
☒ Send documents to server
☐ Replicate database templates
☒ Exchange document Read Marks

☐ Hang up when done ☒ Run in Background

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Edit
View
Mail
Tools
Window
Help
OK
Cancel
System Admin
Template & Example Card Catalog on IR
Self-Tracking Database on IRG_3
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Customer Tracking
Wholesale Customer Tracking on ...
North American Sales Guide on SALES_1
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Executive Briefings 1993 on SALES_1

tem uses the same flags to indicate which parts of the message are to be encrypted, as well.

It's important to be sure you set the flags properly for every field you want to get signed and/or encrypted, because Notes might not warn you if some of the flags are not set as you want them to be.

The flags are generally transparent to the user. They are a built-in component of Notes' "form building" capability that allows users to specify which parts of all the new documents created on the basis of a single template will be encrypted and/or signed. Once you set up the template, or select a preprogrammed template you like, you need never again bother to specify the encryption and signature functions.

When it's time to [illegible] ge, look [illegible] do the encryption or not. As a practical matter, there's no problem calling for as much encryption as you wish when sending messages to another Notes user. But when you're sending email to another network or across the Internet—in other words, through a mail messaging gateway—certain address fields must be left in the clear.

Even so, the encrypted materials in your email message can be discarded or lost depending on how each gateway treats it. This is because today there are no standards for how these gateways should treat encrypted information that—like Notes' encrypted material—contains the extended character set, which uses about twice as many characters as the basi ASCII character set tha email systems are presently able to handle.

Lotus says Notes doesn't yet produce encrypted files that are suitable for Internet email because the company is trying to keep the system as simple as possible for users. However, most experts agree that within five years some form of standards will be set for the extended character set and Notes will then be able to email encrypted files anywhere on the Internet.

In addition to access control and selective encryption, Notes includes a third encryption process: the "Secure Channel." This means all the traffic between two users is encrypted at the link level of the network protocol. This third level of protection doesn't protect your messages from being read by other Notes users at the destination

continued on page 32

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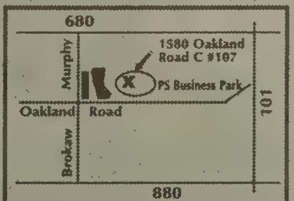

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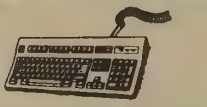

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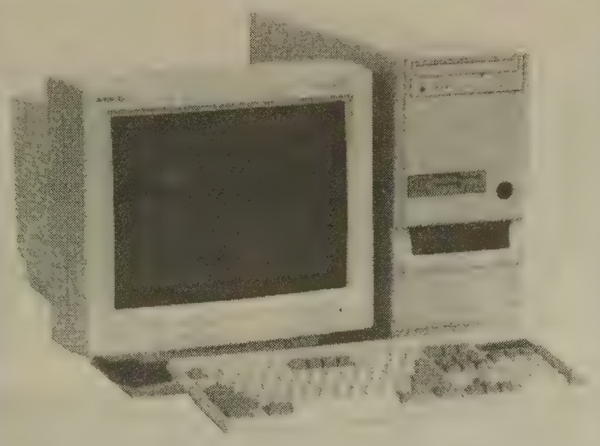

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Norton Utilities

FOR WINDOWS 95

Windows 95-Compatible Software Begins To Appear Before Win 95 Itself

By Woody Liswood

Windows 95 has been so long in coming that other "beta" software has hit the streets to work with the Win 95 beta. Even with everyone's disclaimer of it all being "beta" versions, I figure if you can buy it for $30, it is time for a product review.

As I've written in my articles about the Win 95 beta, there is still going to be a good market for add-on products. Many of us have used the Norton Utilities for MS-DOS since Peter Norton first came out with an unerase utility years ago. Norton Utilities for Windows 95 is the most recent incarnation of Norton's philosophy.

Here is an overview of some of the new or enhanced features:

Enhanced Recycle Bin—In the Win 95 Recycle Bin, any files you delete can be retrieved until you empty the bin. Norton adds functionality so that you can unerase files that are no longer in the bin. Of course, you still have a normal unerase, but now everything works through the bin rather than as separate functions.

Image—The latest version of Norton Utilities includes Image, the file that keeps track of all the files on your disk and stores that information in a separate file so that if you trash the FAT of your hard disk, Image can replace it. When set up as a default, it creates an image file each time you start up your computer. You can also have Image create its file periodically while you are working so that if your system crashes you will not lose as much of your work.

Rescue Disk—When Win 95 first loads onto your computer, it asks if you would like to create a startup disk, which lets you boot from a floppy and then switch to your hard disk. Rescue takes this concept a step further. It spans multiple disks and lets you save more of the configuration information than the Win 95 disks. In any case, you can use the bootable disk to get your computer started and then run the standard MS-DOS-based utilities such as the Norton Disk Doctor to get things going. Rescue saves things such as the Win 95 program registry, hardware drivers, compression drivers if necessary, and even CMOS information.

Norton System Doctor—This new utility continuously checks over sixty aspects of your Win 95 system and displays the results on an icon bar. You can set which graphics and gauges you want in this bar. I've set it to show the amount of CPU time under use, how much virtual memory I have, and what my memory load is as I work.

UnErase Wizard—Like the Enhanced Recycle Bin, UnErase will do what it has always done: show you the list of files that have recently been deleted and let you select what you want to recover. File viewers have been added so that you can look into those files to decide if you really want to undelete them. According to the documentation, UnErase guarantees 100% recovery if everything is set up according to Norton's specifications.

Speed Disk—This is, in my opinion, one of the best of the new utilities. As before, it optimized your hard disk. However, it is significantly better than the optimization program that comes with Win 95. For example, a click on part of the screen that presents your hard disk will tell you which files are on that portion of the disk. This was helpful when I found that I had unmovable files scattered all over my disk. With the Win 95 program there was nothing I could do about this since I had no idea what files those were. Under Norton, I clicked on the screen, found their names, went back and erased them or changed their attributes, then optimized.

Space Wizard—This little goody searches your disk and informs you about temp and other files that you may no longer need. It looks for things like older versions of BAK files, readme files, tutorials, install programs, etc. It presents you with a list from which you can delete files.

Disk Editor—This DOS-based program lets you manually edit data on the disk. Yes, you can now destroy your disk using Disk Editor just as easily as you could back in the DOS world. ■

RESOURCES:

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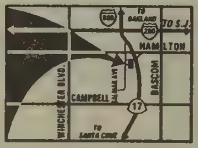

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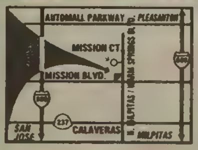

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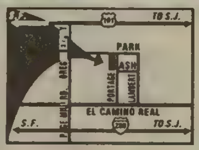

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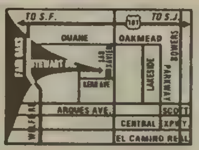

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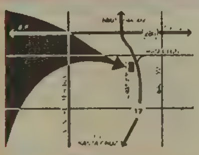

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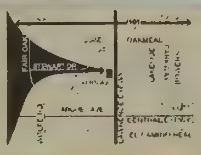

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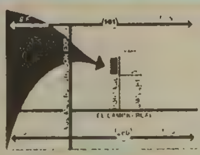

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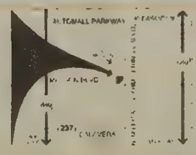

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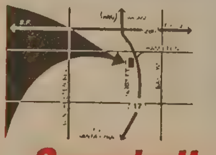

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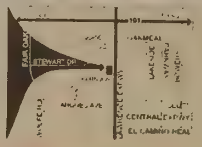

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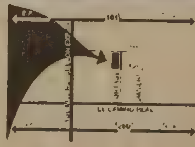

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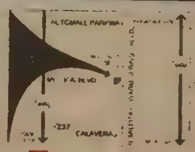

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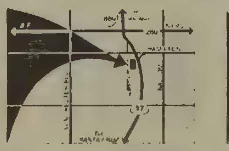

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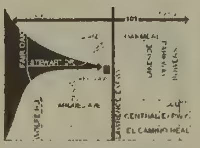

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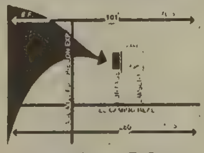

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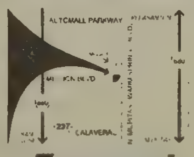

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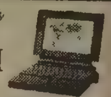

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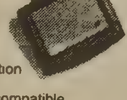

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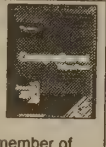

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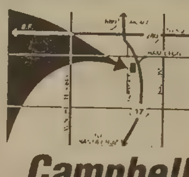

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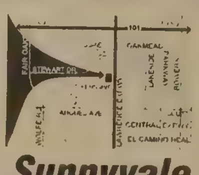

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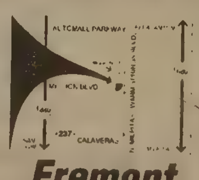

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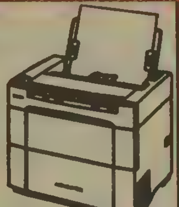

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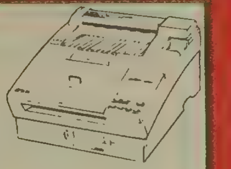

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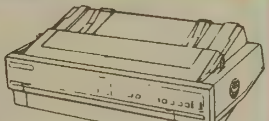

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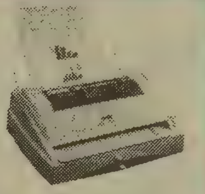

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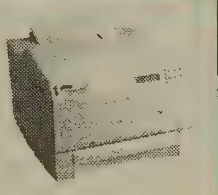

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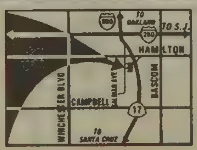

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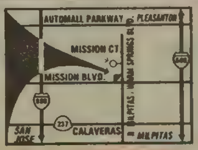

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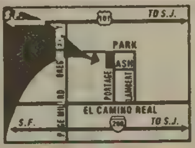

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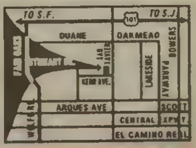

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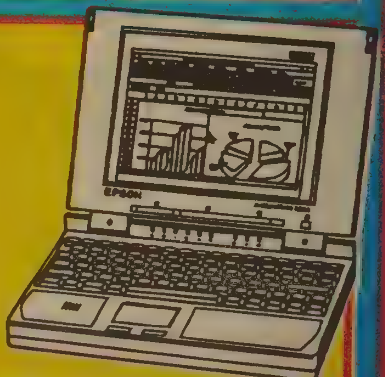

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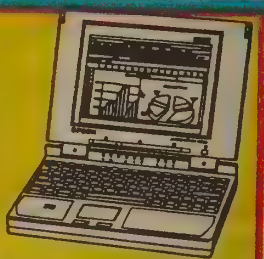

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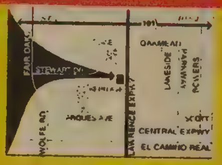
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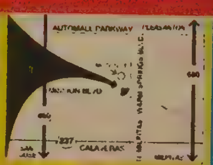
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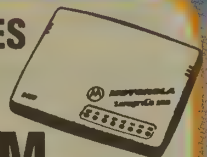

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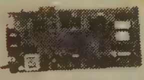

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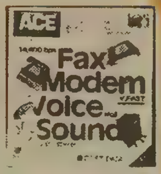

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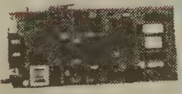

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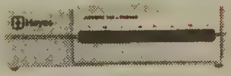

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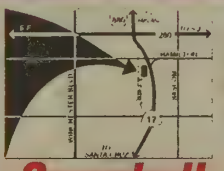

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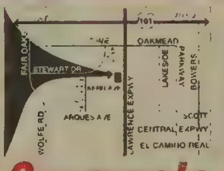

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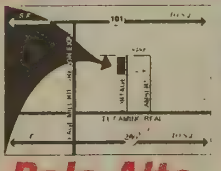

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Instant fax capability for your HPDeskJet Printer

- Easier and faster to install than a fax modem
- Lets you use a single phone line
- Auto switching
- Compatible with HP DeskJet 500, 500C, 520, 540, 550C, 560C, and 660C
- Not Compatible with HP Deskwriter, DeskJet models 310, 320, 1200C.

C2970A #2022059

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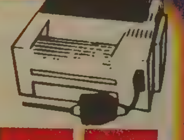

Instant fax capability for your HPLaserJet Printer

- Easier and faster to install than a fax modem
- Lets you use a single phone line
- Auto switching
- Compatible with HP LaserJets III*, IIID*, 4, 4P, 4L, 4Plus, and 5P

*2MB Memory Required

- Not Compatible with HP LaserJet 4M, 4MP, or 5MP.

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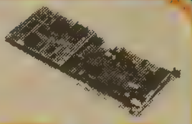
USRobotics The Intelligent Choice in Data Communications **SPORTSTER SI**

14.4 INTERNAL DATA/FAX MODEM



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- 5 Year Warranty

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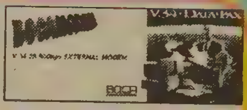

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- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

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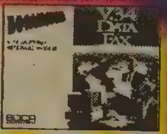
BOCAMODEM V.34 28,800 bps Internal Fax/Modem



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- 28,800bps Data Modem
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14,400 BPS INTERNAL FAX/MODEM

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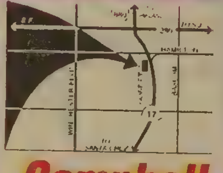

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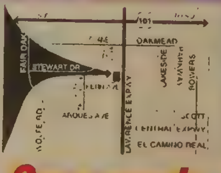

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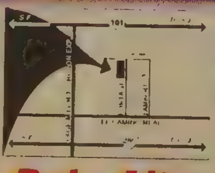

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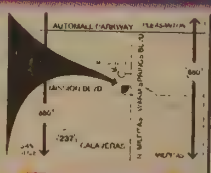

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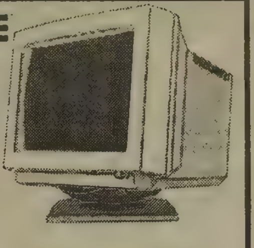

14" SUPER VGA MONITOR

- 1024 x 768
- .39 Dot Pitch
- Green Compliant Color Display

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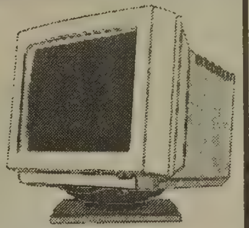
SONY.



CPD-15FS

1280 x 1024

15" SUPER VGA MONITOR

15" 1280 X 1024 Resolution • Flat Trinitron Screen
Energy Star Compliant

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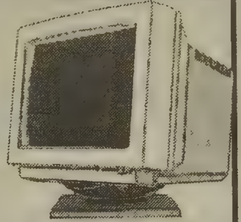

SuperScan™ 15s

Non-Interlaced
1280 x 1024

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Non-Interlaced • .28 dpi • Flat Screen

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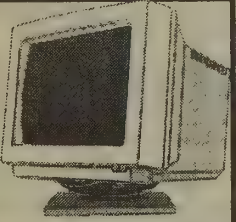

XV15 Multisync 15" FLAT SCREEN SVGA MONITOR

1280 x 1024 • EPA Energy Star Compliant • VESA

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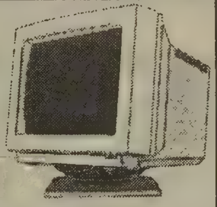

1280 x 1024

NON-INTERLACED

17" SUPER VGA MONITOR w/DIGITAL CONTROL

#1983515

$595

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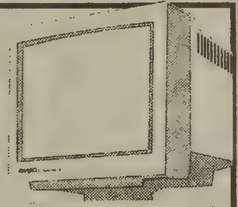

Non-Interlaced

17" FLAT SCREEN MONITOR

1280 x 1024 • Flat Screen • .28mm dot pitch
Non-Interlaced

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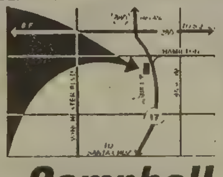
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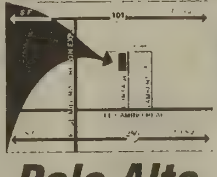

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- Redline! Disk Utilities
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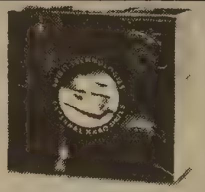

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ST-ZFP-Q840
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MODEL 1.2
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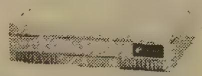

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Cables and software included.

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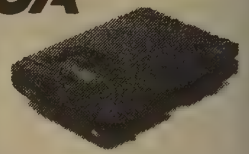

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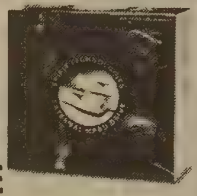

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External, removeable Syquest hard drive with one 200MB Cartridge and cables.

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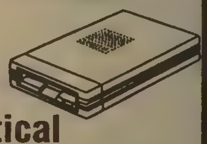

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- Average Seek Time: 30ms typ
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- 50 pin DB centronics (input)
- One Inch Height

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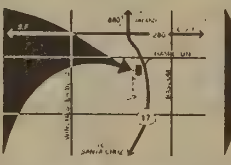
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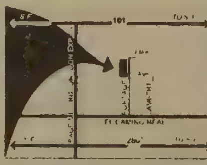
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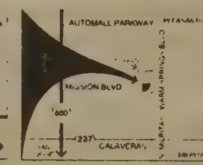
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LIGHTNING 730MB SCSI-II HARD DRIVE

11ms Seek Time
3.5" x 1" ht.
128K Buffer
2 Year Warranty
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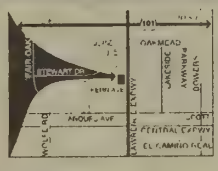
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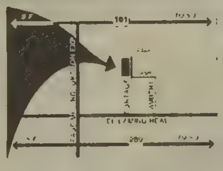
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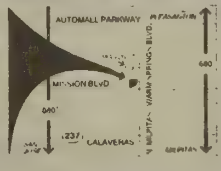
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- 32K Buffer
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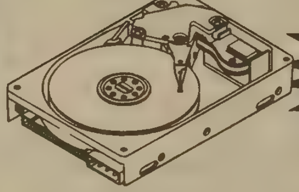

- 3.5" x 1" ht.
- 12MSec Seek Time
- 256K Buffer
- 3600 RPM

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540MB IDE HARD DRIVE

- 3.5" X 1" HT.
- 14msec Seek Time
- 128K Buffer
- 3600 RPM

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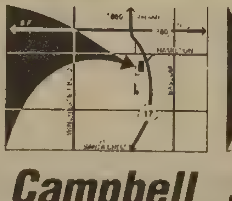
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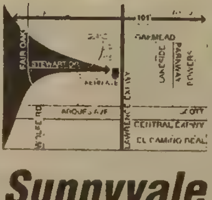
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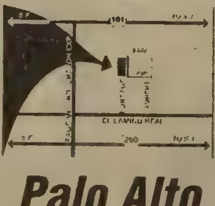
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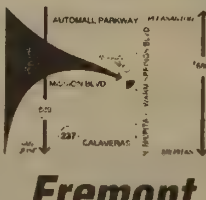
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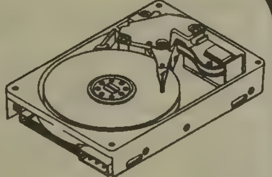
850MB ENHANCED IDE HARD DRIVE



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- 14ms Seek Time
- 64K Buffer
- 3600 RPM

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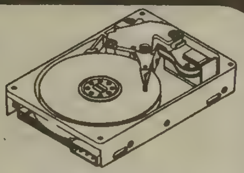

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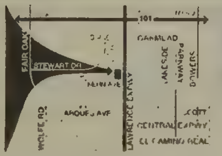
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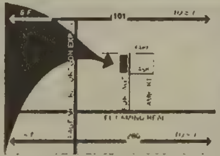
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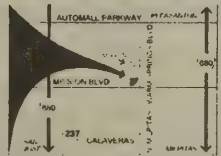
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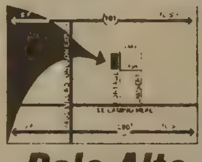

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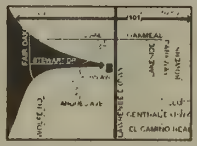

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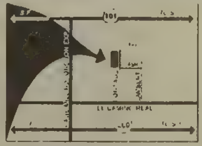

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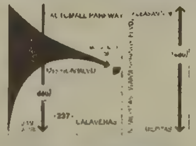

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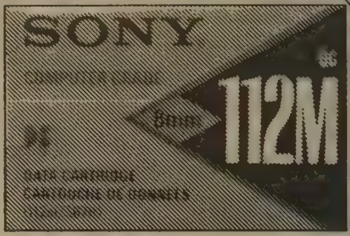
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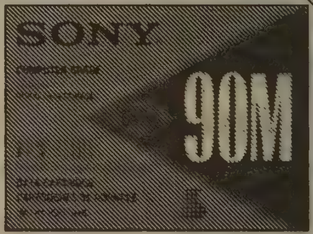

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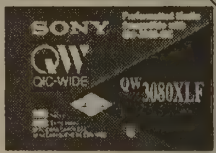
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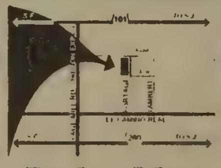
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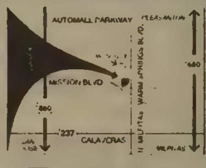
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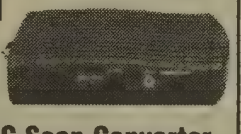

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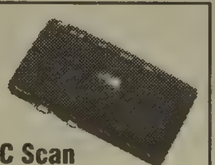

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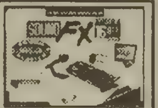

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- MIDI Interface, game port
- Comes bundled with microphone, headphone and software.

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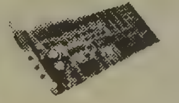
PRO SONIC SOUND CARD MEDIA VISION SOUND SCSI CD-ROM Interface



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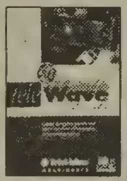

- DSP based wave table & FM synthesis combo sound board.
- 32 simultaneous stereo voice polyphony and General MIDI standard support with 128 instruments
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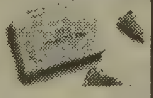

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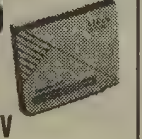

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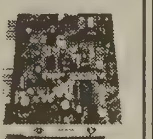

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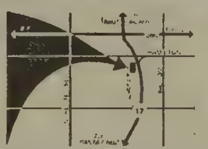

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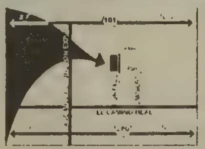

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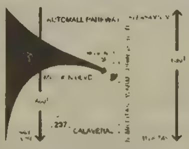

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- Premium stereo speakers, microphone & headphones
- Compton's Interactive Encyclopedia
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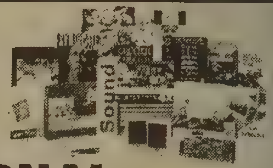

This kit contains everything you need including best-selling CD-ROM titles, CD-quality stereo sound card and a multi-session photo CD compatible, quad-speed CD-ROM drive

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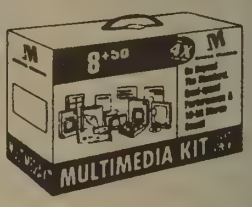

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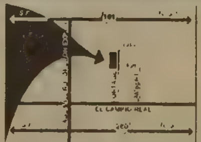

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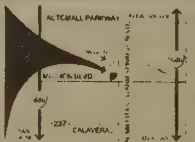

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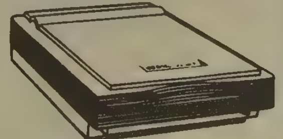

- 600DPI Optical / 2400 Interpolated
- 30 Bit Color / 10 Bit Grey Scale Flatbed Scanner
- Includes Corel Photo- Paint, Colera Word Scan
- Interface included.

#2018214

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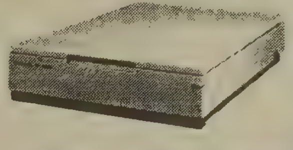
Canon

IX-4015 COLOR IMAGE SCANNER



The IX-4015 comes with everything you need to start scanning today, including a Quick Start Guide, OFOTO 2.0 for Windows, SCSI Cable and Cable Terminator, and TWAIN Device Driver for the PC

- 400 dpi x 1200 dpi Maximum Resolution
- Color: 12 - 800 dpi, Monochrome: 12 - 1200 dpi
- SCSI Interface

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TWAIN SCAN DUO 600 SCANNER

This scanner offers true color input, 24 bit per pixel color scans, capturing 16.78 million colors. High color saturation and the distinctiveness of details give the user a better visual perspective of scanned images. Photographs, artwork, or text are scanned at a true vertical resolution of 600 dpi and a true horizontal resolution of 300dpi. Duo 600 offers 256 true gray scale scanning for black and white images.

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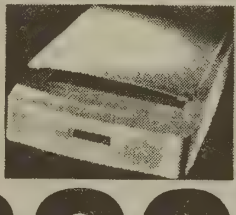
ArtiScan 6000

COLOR FLATBED SCANNER



- 300 X 600 DPI • 24-Bit Color
- Includes Interface
- Graphic and OCR software

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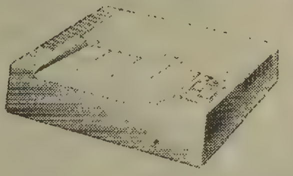
Plustek

COLOR SCANNER



- 600 DPI
- Supports 16 million colors
- 2.5ms per line scanning
- OCR software included
- One year warranty

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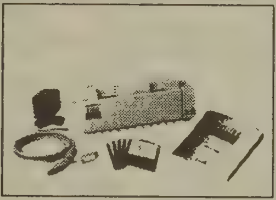

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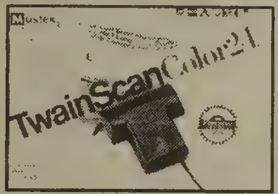

The TOTAL Scanning Solution

- CG-8400 24-Bit Color Handheld Scanner
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- 1904 Interface Card
- Installation and Users Manuals

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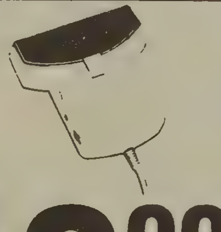

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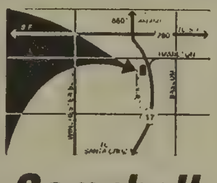

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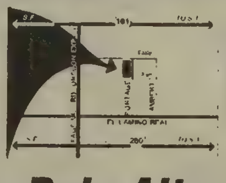

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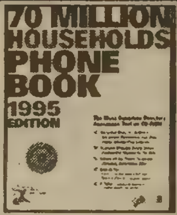

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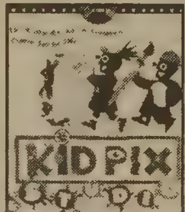

The multimedia paint and animation program just for kids!
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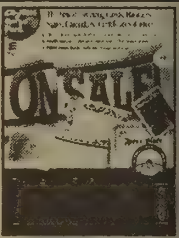

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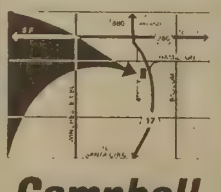

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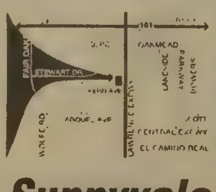

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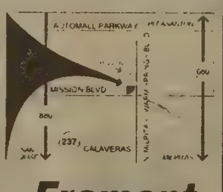

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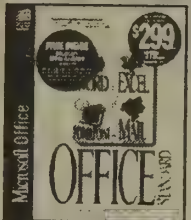

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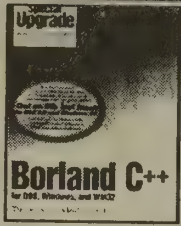

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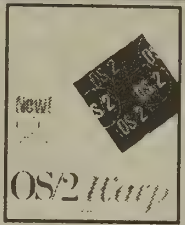
IBM OS/2 WARP 3.0



OS/2 WARP 3.0 offers you high-performance with low-memory on a 32-bit environment to run 'DOS, Windows and OS/2 applications. The new OS/2 warp 3.0 comes with an Internet connection software and the IBM Bonus Pack, a powerful collection of software word processing, fax/communications and much more.

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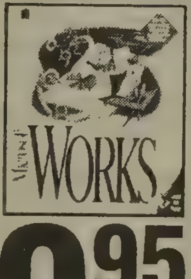

Microsoft Works gives you the right tools for your business or personal needs-works processing, financial analysis, database management, charting, and illustration-the essential tools for easier every day computing.

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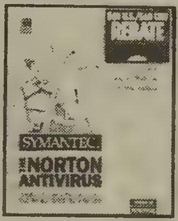

The Norton AntiVirus detects and eradicates every known virus, every class of virus, every type of viral activity- even the new class of Polymorphic viruses, including the Mutation Engine viruses. It is backed by the Norton Labs, the industry's most advanced antivirus research facility.

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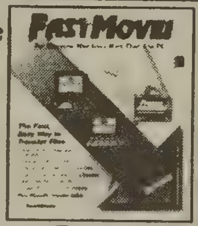

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Features:

- Shows you which files need to be updated
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- Selects just the files you want
- Includes Windows and DOS versions
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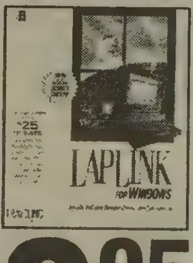

The best file transfer software is even better with this new windows™ version - simple and reliable. Features include:

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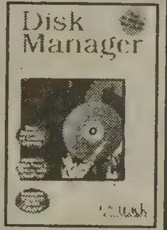

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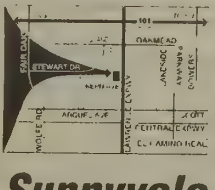

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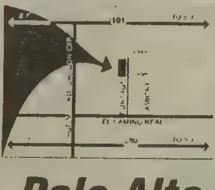

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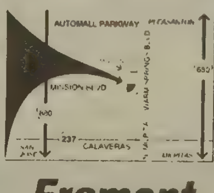

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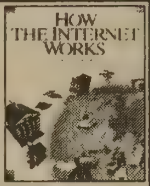

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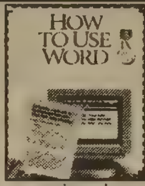

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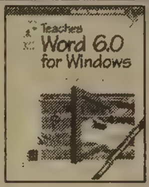

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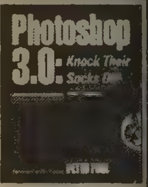

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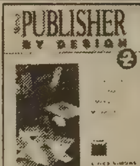

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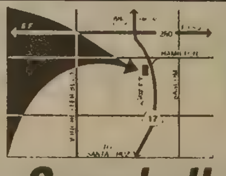

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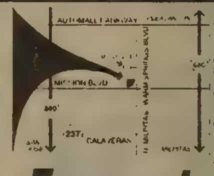

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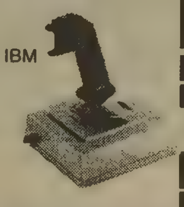

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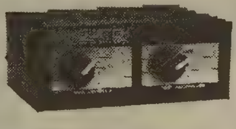

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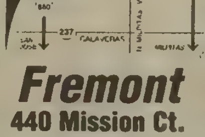

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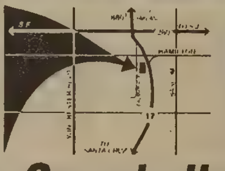

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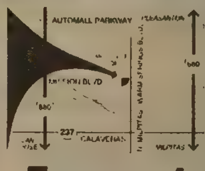

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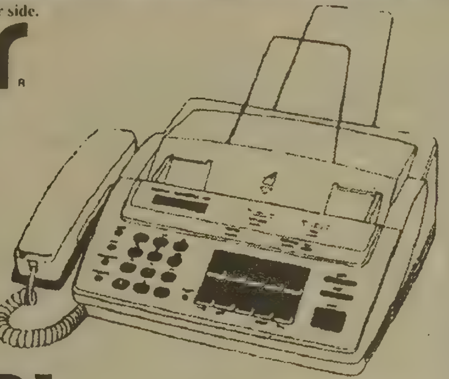

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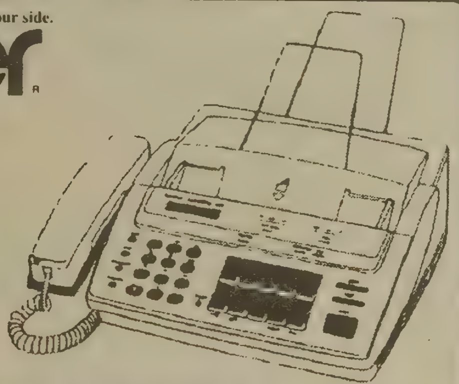

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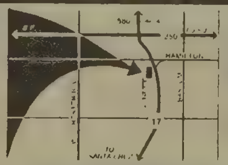

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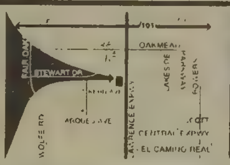

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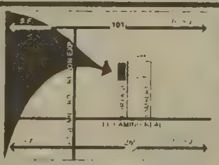

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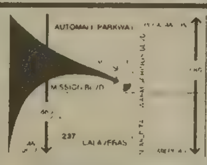

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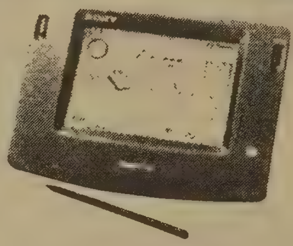

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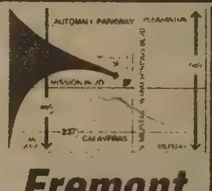

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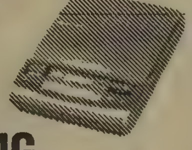

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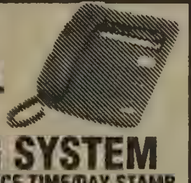

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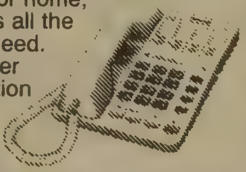

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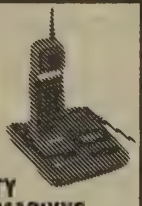

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Model KX-F550
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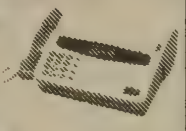

Panasonic

FAX MACHINE
WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE

Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search. 12 station one-touch with 28 station speed dialing, and much more. All for just...

$345

Model KX-F750
#1944282

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PLAIN PAPER FAX MACHINE
WITH 20 PAGE MEMORY

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette, adjustable letter /legal tray, 32 level halftones, polling, activity reporting, 20 page document feeder, broadcasting to 128 locations, fax transfer, enlargement and reduction copier functions, fax/tel switch, 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search.

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Model KX-F3000
#1850626

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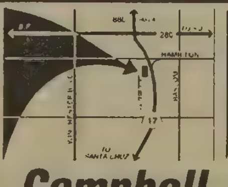

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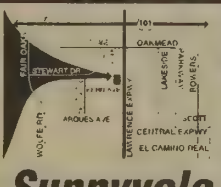

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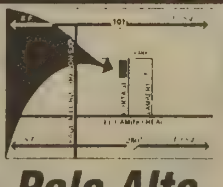

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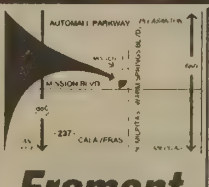

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This ingenious telephone uses dual ringers with distinct ringer sounds and seperate ringer controls for each line! By pressing the conference button you will be able to conduct a three way conversation. An excellent value at only…

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Model 2-9320
#1674277

AT&T

SPEAKERPHONE

AT&T's popular speakerphone comes equipped with 12 number memory, redial, ringer adjust, mute, flash, and receiver volume control (a helpful feature for those who are hearing impaired or in a noisy environment). Now just..

$49⁹⁵

Model 706
#1781315

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SPEAKERPHONE

With features like hands-free speakerphone. 32 number memory, hold, receiver and speakerphone volume control, last number redial, flash, ringer control, programmable pause, mute, just to name a few, this AT&T speakerphone will be an excellent addition to any home or office at only...

$49⁹⁹

Model 825
#1955046

Panasonic

2-LINE SPEAKERPHONE

From Panasonic comes this fully featured 2-line speakerphone with 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only…

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MODEL KX-T3166
#1745111

COPIERS

Canon

COMPACT COPIER

The size of Canon's compact personal copier makes it perfect for the home or office where space is at a premium. Some of the convenient features of this model includes the ability to copy on both sides of copy sheets, exposure control, and more. Now just...

$279

MODEL PC-300
#2022798

SHARP

LETTER/ LEGAL PERSONAL COPIER

Compact and lightweight, this Sharp copier weighs only 17.5 lbs. and fits virtually anywhere! Yet, it even lets users make multiple copies up to legal size (81/2" x 14") originals onto a wide range of papers from 81/2" to 4" x 6", allowing an expanded range of applications. Other features include auto exposure, 50 sheet paper tray capacity, auto start function and much more! An excellent value at just.....

$399

MODEL Z-27
#1892837

SHARP

LETTER/ LEGAL COPIER
WITH STATIONARY PLATEN

This durable Sharp copier utilizes a stationary platen, a space-saving feature that eliminates the possibility of the copier bumping into objects while in operation. The variable zoom ratio setting adjusts between 70% and 124% in 1% increments giving you more copying flexibility and versatility. Other features include large capacity 250 sheet tray, continuous copy (up to max. 50), auto start, and letter/legal capacity. An excellent value at...

$679

MODEL Z-85
#1903740

ALL DIGITAL ANSWERING MACHINES

CONAIR

ALL DIGITAL ANSWERING MACHINE

Conairs fully digital answering machine allows you to avoid the hassle of constantly rewinding and fast forwarding tapes typically found in answering machines, within seconds you can skip forward of backwards to the message of your choice! Features include tone remote control, ring select, flashing message counter, call screening, auto disconnect, vox, and much more. Now just…

$34⁹⁹

Model TAD-1200
#1978539

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ALL DIGITAL ANSWERING MACHINE
WITH THREE MAIL BOXES

With three mailboxes to choose from, members of the household can have messages stored for them in their own mailbox! The all digital capability eliminates the need for moving parts and allows for instant playback of incoming messages-no need to wait for a tape to rewind or fast forward! Other features include voice time/day stamp, two outgoing messages, digital counter, selective message erase and much more for only…

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Model
2-9876
#1839261

SONY.

ALL DIGITAL ANSWERING MACHINE
WITH TIME/DAY STAMP

This innovative Sony all digital answering machine features a slim space saving design which allows a phone to be placed on top of it. Other features include variable-speed playback, voice time-day stamp, digital message counter, audible message alert, and more. Now just...

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Model TAM-2000
#1949793

AT&T

ALL DIGITAL ANSWERING SYSTEM SPEAKERPHONE
WITH 2-LINES, 4 VOICE MAILBOXES AND 26-MINUTE TOTAL CAPACITY

The individual voice mailbox system, voice/time stamp, handset play back and record, display screen indicating time, day, and number dialed, and 2-way call recording.

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Model 1872 #1954997

900 MHz CORDLESS PHONES

VTECH

DIGITAL 900MHz CORDLESS PHONE

From VTech a leader in 900MHz cordless phone technology come this feature packed unit with 10 channel selection, a digital voice encryption system, out-of-range indicator, four programmable ringer types, one-way page, 10 number memory, mute, flash, hold, and last number redial all for the incredible price of only....

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MODEL 900 DL
#1818666

muratec

60 CHANNEL ULTRA LONG RANGE 900MHz CORDLESS PHONE

Compact in design, but powerful in performance, this 60 channel, long range 900MHz phone offers 10 number speed dialer, last number redial, flash, intercom/ paging, mute, and much more. Now just...

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Model CP-900
#1986611

AT&T

DIGITAL 900MHz DUAL KEYPAD CORDLESS SPEAKERPHONE

Features include 10 number memory, mute, hold, flash, last number redial, one-way paging, out-of-range-indicator, digital voice encryption, and much more for only…

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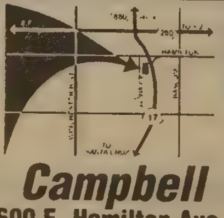

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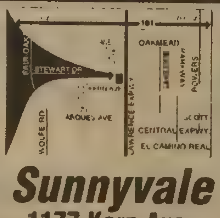

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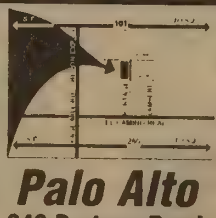

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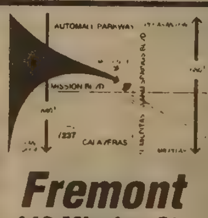

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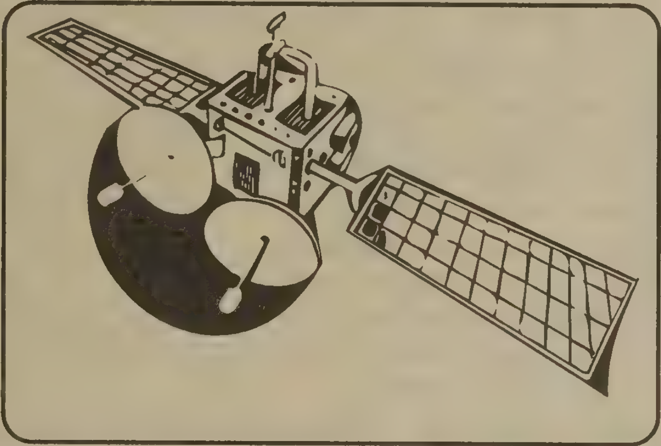

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CNBC
The Disney Channel
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MIRAMAX
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TRISTAR PICTURES
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5 HBO CHANNELS
3 SHOWTIME CHANNELS
2 "THE MOVIE" CHANNELS
3 CINEMAX CHANNELS
AND MORE

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SHOWTIME 2
VH1
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RCA

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Enjoy over 150 channels of top-notch entertainment with the crystal, digital clarity of the new RCA DSS system. CD quality sound and over 400 lines of video resolution, provide an incredible entertainment experience. Let Fry's and RCA help you drive on the Information Superhighway!!!
*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

$598*

MODEL DS-1120WR
#1942578

After $100 Mail-in Rebate from RCA

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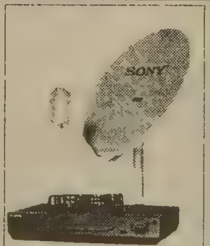
DIGITAL SATELLITE SYSTEM (DDS) DISH AND RECEIVER



Sony's new DSS system is compatible with more than 175 channels of DirecTV and USSB programming. CD quality sound and over 400 lines of digital video resolution work together to give and outstanding home theatre experience. Other features include Sony's signalseeker LED for easy install and a universal remote.
*System price does not include monthly programming fees starting a $29 95 plus additional charges for pay-per-view movies and events.

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MODEL SAS-BS1
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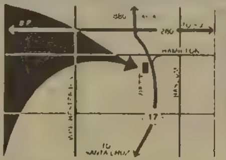

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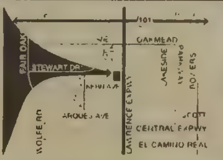

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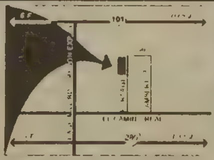

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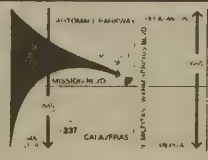

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Product Spotlight

Updates

Compaq's "Cool Cash" Rebate Promotion offers cash rebates to consumers who purchase select models of the all-in-one Presario 500 Series multimedia PCs through September 4, 1995. Compaq Computer Corp., PO Box 692000, Houston, TX 77269-2000.

DayStar released **PhotoMatic 2.0**. This feature-rich Photoshop batch processing utility—which originally sold for $199—will now be distributed as freeware. DayStar Digital Corp., 5556 Atlanta Hwy., Flowery Branch, GA 30542. (404)967-2077. WWW: http://www.daystar.com/

Farallon Computing announced that it has **enhanced its EtherWave Mac/PowerBook Adapter** by adding support for Apple Desktop Bus power to allow increased portability for mobile users. Farallon Computing, Inc., 2470 Mariner Sq. Loop, Alameda, CA 94501. (510)814-5100.

Fractal Design released **Fractal Design Painter 3.1**. Owners of Paint 3 can upgrade for free by downloading a special software patch from AOL and CompuServe. It can also be ordered directly from Fractal Design for $12.95. Fractal Design Corp. 1-800-297-COOL.

GreenSoft introduced **GreenSoft for Windows 1.2**, an upgrade to its complete personal paperless office application for small office/home office professionals. GreenSoft Corp., 4880 Santa Rosa Rd., Suite 170, Camarillo, CA 93012. 1-800-588-DESK.

QMS introduced **CrownAdmin 2.0**, a software utility that has a graphical user interface so users can easily manage and monitor QMS Crown network printers on virtually any platform. QMS, Inc., One Magnum Pass, Mobile, AL 36618. 1-800-523-2696. WWW: http://www.qms.com/

SoftQuad announced **HoTMetal PRO 2.0**. Users of v1.0 can upgrade for a limited time for just $59. SoftQuad, PO Box 32, Norton, VT 05917. 1-800-360-8454.

SPRY is shipping **Internet In A Box 2.0**. A free upgrade is available to anyone who purchased version 1.0 after April 10, 1995. For customers who purchased the product prior to April 10, there is a $39.95 upgrade charge. SPRY, CompuServe Internet Division. 1-800-777-9638. Email: info@spry.com. WWW: http://www.spry.com/

Xerox announced the availability of **TextBridge Professional Edition 3.0 for Windows**, its OCR software. Xerox Crop., Desktop Document Systems, 3400 Hillview Ave., Palo Alto, CA 94304. 1-800-248-6550. ext. 3.

Reviews

Macintosh Software Review

StuffIt Deluxe 3.5

Desktop Tools

Published By: Aladdin Systems

List Price: StuffIt, $129.95; Desktop Tools, $89.95

Reviewed By: Matthew Leeds

Aladdin Systems has long understood what it takes to be successful in the Macintosh software market. Their continuing support of the user community by releasing and supporting freeware tools that integrate with their commercial tools is a model for other developers to follow. StuffIt Deluxe is the standard by which other commercial compression products are judged. Version 3.5 adds PowerMac native support, better hard drive compression, and support for drag and drop applets for easy compression and expansion in the Finder.

Also added is extensive AppleScript support, extensions for QuicKeys and XTND file-conversion, XCMDs for HyperCard, and support for PowerTalk. Magic Menu, a Finder menu addition, has been improved. Drag and drop support also lets you just drag items out of an archive window onto the desktop or into a folder; they are automatically decompressed. You can also compress items by dragging them into an existing archive. StuffIt Deluxe includes StuffIt SpaceSaver, a hard drive compression utility.

Aladdin Desktop Tools is a collection of seven utilities that assist with file management and basic Finder actions such as copying, moving, printing, and deleting files. It includes: Desktop Speedboost which eliminates the delays that occur while copying, duplicating, or trashing files by making these events occur in the background. Desktop Shortcut which modifies the open file dialog and adds new features that let you find files and folders faster. Desktop Viewer which lets you view the contents of files without needing the application that created them. Desktop Printer which creates printer icons that let you switch among different printers without visiting the Chooser. Desktop Makeover which eliminates the "application can't be found" dialog and also lets you add menu shortcuts to Finder operations. Desktop Magic Tools which adds a new Finder menu with useful tools such as copy, move, create aliases in specific locations, and an enhanced Get Info. Desktop Secure

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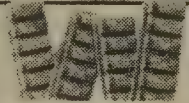

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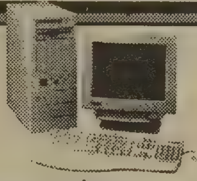
Super Micro Tiger VIP M/P Intel P5-90/100 MHz	518/648
Portwell PCI M/B Intel P5-60/66 MHz	308/388
ASUS VIP M/B Intel 486DX4-75/100 MHz	308/368
ASUS VIP M/B AMD 486DX4-100/120 MHz	258/338
VESA Cyrix 486DX2-66/80 MHz	178/188
VESA Intel 486DX-33/DX2-66 MHz	228/248
AMD 386DX-40 MHz w/128K Cache	105

MONTHLY SPECIALS



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$758 386DX-40 **$888** Cyrix 486DX2-50

•Intel Pentium® 90 System Special

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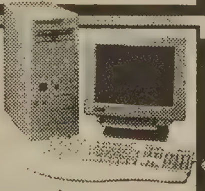

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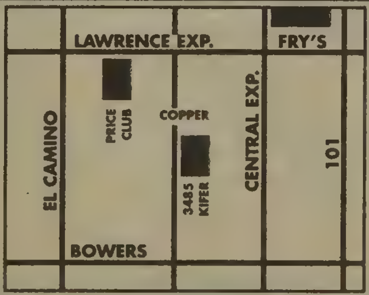

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Delete which scrubs deleted filed permanently from your hard drive. (Aladdin Systems, Inc., 165 Westridge Dr., Watsonville, CA 95076)

Squizz

Published By: Human Software Co.
List Price: $129
Reviewed By: Matthew Leeds

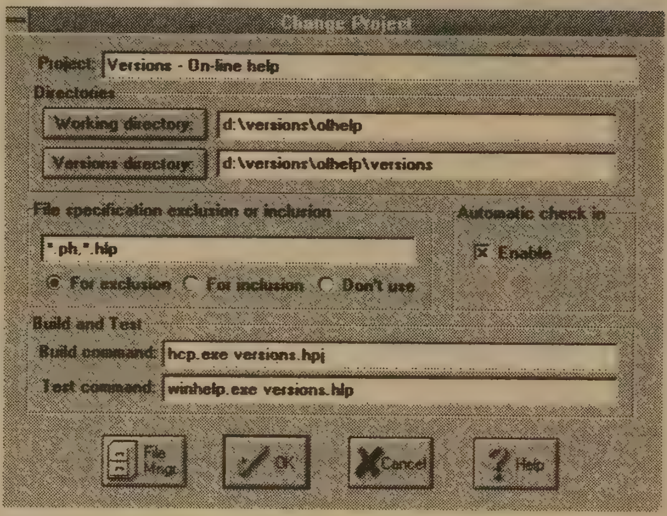
Squizz is a plug-in for Photoshop and other programs that accept Photoshop plug-ins. It provides two methods of distorting images either using a grid to create a warp template, or real-time distortions using a brush tool. It works on a proxy of your image until you've finished all your manipulations, then it renders a final image at the full resolution of your original. This lets it operate much faster than if it had to move megabytes of data. Two versions are available, either 68K or PowerMac native.

Squizz is an excellent tool. You can create some remarkable distortions just by brushing across an image. The brush is adjustable for size and opacity, and a progressive undo lets you step back through your modifications. However, a remarkably bad manual and two layers of copy protection mar this otherwise useful product. While serial number entry is acceptable, the installation of a software 'key' on your hard drive is not. These types of key disk protection schemes have a long history of causing problems and have no place on professional tools. You'll have to decide if you can accept the risk that you might lose the ability to use a tool you've grown accustomed to at an inopportune time. (Human Software Co., 14407 Big Basin Way, PO B ox 2280. Saratoga, CA 95070. 408/741-5101.

Windows Software Review

Versions for Documents—Team Document Creation and Control

Published By: Starbase Corp.
For: Windows
List Price: $129
Reviewed By: Pamela Mason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Versions directory:
File specification exclusion or inclusion
Automatic check in
Build and Test
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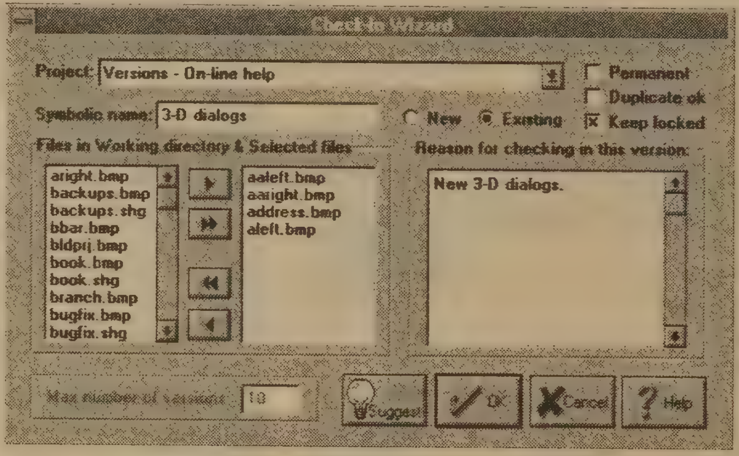
OK
Cancel
Help

Project: Versions - On-line help
Working directory: d:\versions\olhelp
Versions directory: d:\versions\olhelp\versions
File specification exclusion or inclusion: *.ph,*.hlp
● For exclusion ○ For inclusion ○ Don't use
Automatic check in: ☒ Enable
Build command: hcp.exe versions.hpj
Test command: winhelp.exe versions.hlp

Poor or nonexistent tracking revisions of a document is about as hot a topic as you'll find right now in any organization where there are shared files among workgroups. It is often a source of contention and blame among employees because of wasted hours spent reworking files, finding lost files, or recreating old versions of files. Versions for Documents is a project-oriented version control system that addresses many of the problems inherent in multi-user environments.


Check-In Wizard
Files in Working directory & Selected files
Reason for checking in this version:
Max number of versions:
Suggest
OK
Cancel
Help

Project: Versions - On-line help
☐ Permanent
☐ Duplicate ok
Symbolic name: 3-D dialogs
○ New ● Existing
☒ Keep locked
Files in Working directory: aright.bmp, backups.bmp, backups.shg, bbar.bmp, bldprj.bmp, book.bmp, book.shg, branch.bmp, bugfix.bmp, bugfix.shg
Selected files: aaleft.bmp, aaright.bmp, address.bmp, aleft.bmp
Reason for checking in this version: New 3-D dialogs.
Max number of versions: 10

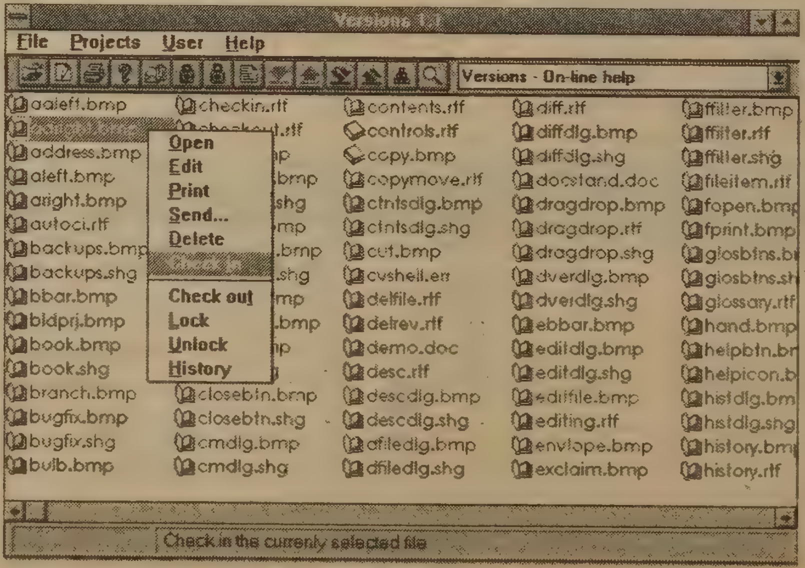
Two of the problems as explained in the manual:

"1) Too many cooks. If you are producing documentation or advertising and writers, editors, layout artists, and technical staff all need to access the same file. How can you be sure that each member is working on the same version of file? 2) Change and change again. Whether it's your client or your boss who orders all those changes, what do you do when you want to change back?"

The solution: Versions for Documents. It stores multiple versions of your files and, if you are about to use an out-of-date file, it offers messages and filelocking capabilities all geared as a system of checks and balances to keep everyone on the same track. If you need an old version of a file, you can get it back.

It can be used for version control of any type of file, whether on a LAN or not. Use it for your own development projects or in shared-file workgroup environments. It supports viewing many word processor file formats and also provides tools for viewing and comparing files. Among the word processing formats supported are WordPerfect, Interleaf, Framemaker, Ami Pro, and Microsoft Word files. For spreadsheets, some formats included are Paradox, DBASE, and comma-separated variable ASCII. It also offers graphics file format viewing for PCX, TIF, EPS, GIF, BMP, JPEG, CGM, WMF files, and others.

Programmers have long had UNIX-derived utilities for version control of code; Versions for Documents brings version control to other types of PC users, such as those who create docu-


Versions 1.1
File
Projects
User
Help
Versions - On-line help
Open
Edit
Print
Send...
Delete
Check out
Lock
Unlock
History
aaleft.bmp
address.bmp
aleft.bmp
aright.bmp
autoci.rtf
backups.bmp
backups.shg
bbar.bmp
bldprj.bmp
book.bmp
book.shg
branch.bmp
bugfix.bmp
bugfix.shg
bulb.bmp
checkin.rtf
closebtn.bmp
closebtn.shg
cmdlg.bmp
cmdlg.shg
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controls.rtf
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copymove.rtf
ctrlsdlg.bmp
ctrlsdlg.shg
cut.bmp
cvshell.err
delfile.rtf
delrev.rtf
demo.doc
desc.rtf
descdlg.bmp
descdlg.shg
dfiledlg.bmp
dfiledlg.shg
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diffdlg.bmp
diffdlg.shg
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dragdrop.rtf
dragdrop.shg
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glosbtns.sh
glossary.rtf
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Check in the currenly selected file

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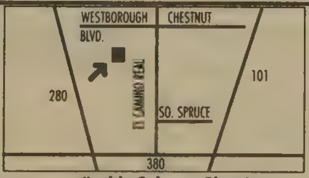

(Inside Fairway Plaza)

New Products *continued from page 124...*

mentation. Costing less than the price of the labor to recreate several lost files, Versions for Documents is a bargain. It not only saves time and increases productivity, but it offers something that can help you sleep a little better at night—insurance. (Starbase Corp. 1-800-99-STARB)

Amiga Software Review

CrossDOS 6 Professional

Published By: Consultron
List Price: $60. ($30 direct, $15 upgrade)
Reviewed By: Douglas J. Nakakihara

Although CrossDOS began and has always been available as a separate commercial product, Consultron's basic MS-DOS filesystem has been included as a standard part of the Amiga operating system for quite a while. This has allowed Amigas to transparently read from and write to PC floppy disks right out of the box. Amigas equipped with high-density drives can even work with 1.44MB PC floppies, while low-density drives are limited to working with 720K PC floppies. CrossDOS lets you also work with MS-DOS formatted hard drives and removable media like Syquest and Bernoulli disks.

Consultron has completely rewritten the CrossDOS device driver which has boosted floppy read/write speeds by a reported factor of two. Disk access and caching routines have been optimized to gain a ten-fold improvement when working with MS-DOS formatted hard drive partitions. My own tests were too crude to specifically confirm Consultron's speed claims, but performance has definitely improved dramatically.

The new hard drive configuration software makes it a breeze to set up the mounting parameters for an MS-DOS format disk (often removable media) or partition. Furthermore, the new QuickPrep utility allows you to prep the CrossDOS partition directly from the Amiga. Previously this had to be done on an MS-DOS machine or using a PC emulator. (Note that the PC-emulation program CrossPC is no longer bundled with CrossDOS.)

CrossDOS now also supports MS-DOS disk-image files used by many popular PC emulators. If you frequently use MS-DOS media with your Amiga system, CrossDOS 6 is a recommended buy. (Consultron, Inc., 8959 Ridge Rd., Plymouth, MI 48170. 313/459-7271)

TypeSmith v.5

Published By: Soft-Logik Publishing Corporation
List Price: $200 ($125 direct)
Reviewed By: Douglas J. Nakakihara

The last time I reviewed Soft-Logik's font editing/conversion program TypeSmith, I joked that TrueType font support was left out because they had to leave something for the next release. Well, it's no joke now: TypeSmith now supports TrueType fonts, the PC standard! Yeah! Of course, TypeSmith still supports PostScript, Compugraphic Intellifont, Soft-Logik, and Amiga bitmapped formats. There is also a new quick-loading/saving format called IFF RFF.

The editing tools remain basically unchanged with all of the Bezier structured drawing tools you'll need. Bitmapped fonts can be created from scratch or generated based on any outline font. Conversely, an outline font can be auto-traced from a bitmapped image. Still no way to create bitmap metric files, however.

ARexx is fully supported and there is a very clever script included that batch-converts a directory of fonts. A welcome addition is the ability to print a one-page full character set of a font.

Extremely complex PostScript specialty fonts still don't convert well to Compugraphic format. However, Soft-Logik indicates that this format (as well as TrueType) uses excessive points compared to PostScript, so that might be the problem. On a related note, there are two new features that reduce the number of points and correct path directions. These were designed to aid in the loading of Compugraphic and TrueType fonts.

Whether you're into desktop publishing, video titling, or 3-D graphics, you can't get away from the importance of effective fonts. TypeSmith 2.5 gives you the best of all worlds and should be a part of any Amiga user's arsenal. (Soft-Logik Publishing, 315 Consort Dr., St. Louis, MO 63011. 1-800-829-8608)

Wavemaker Version 2.0

Published By: Radiosity Software
List Price: $249.99. (Upgrade $70)
Reviewed By: Douglas J. Nakakihara

Wavemaker is a logo-animation scene generator for LightWave 3D (NewTek). Its author, Tony Stutterheim, breaks the logo-animation creation process into a few basic parts: the logo object, its motion, "elements" behind the logo, and the background. Each part is configurable using Wavemaker's straightforward interface.

The motion parameters (twenty-five different settings) define how the logo comes into view, how long and where it stays, and how it leaves. Up to eight elements can be layered behind the logo from the seventy-two available, including flying TVs, radar sweeps, confetti, etc. Most have various adjustable parameters. Backgrounds can be solid, gradient, an image, or an image sequence.

If you don't have the time to brew your own, sixteen high-quality "pre-fabricated" animations are available. You can even have Wavemaker select all of its own settings to be used with your logo. What could be easier?

Rendering operations can be controlled right from Wavemaker, with most LightWave render options adjustable from there as well. This includes batch-rendering of up to fifteen scene files, paneled 3 x 3 or 4 x 4 scene storyboards, plus direct PAR support. Wavemaker's Image Factory option creates sets of background graphics using randomly selected elements and backgrounds. Build your own custom library of background video graphics while you sleep!

The included demo videotape is a nice touch to this superb product. Wavemaker is now fully compatible with LightWave v3.5. If you do logo animations, you need Wavemaker. You'll likely pay for it with a single job! (Radiosity, Attn: Andy Hill, 3970 N. Victoria St., Shoreview, MN 55126. 612/787-0855)

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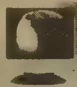

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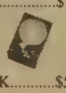

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Sound Blaster 16, Amplified Speakers, Dual Speed CD-ROM Drive, CD-ROM Software Bundle: Sherlock Holmes Consulting Detective, Indy 500, Software Toolwprks Multimedia Encyclopedia, Lemmings, The Secrets of Monkey Island, Loom, Secret Weapons of the Luftwaffe, Aldus Photostyler SE, More $355

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Same Hardware as EDUTAINMENT CD 16 Plus Dynamic Microphone CD Software: Grolier Multimedia Encyclopedia, Aldus Photostyler SE, HSC Digital Morph, Kai's Power Tools, Aldus Gallery effects, Altamira Composer, Children Screen Singer, Lemmings, Indy 500, More $240

GAME BLASTER CD 16
Same Hardware as EDUTAINMENT CD 16 Plus Flight Joystick, Microphone, CD Software: Rebel Assault, Return to Zork, Iron Helix, Sim City: 2000, Indy500, Lemmings, Grolier Multimedia Ency. Civilization, Silent Service, F117A, Railroad Tycoon, More .... $call

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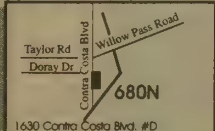

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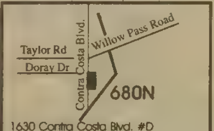

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PC Hardware Review

EIDE 2300 Plus Enhance IDE Disk Controller for the VESA Local Bus

Manufactured By: Promise Technology
Review By: Woody Liswood

I like boards that all I need to do is plug it in and everything works. The EIDE 2300 is a single board that gives you a VL bus IDE port, a ISA IDE port, a floppy drive port, and a game port. It comes with all the necessary cables to connect everything and has a multitude of jumpers to set every conceivable option.

To take advantage of the advanced features, a variety of drivers accompany the board. I tested the driver for Windows and found no problems. Since the drivers do not work under Windows 95, they were removed by my beta version of Windows 95 during installation . But I did not see any decrease in performance without the drivers under Windows 95.

The EIDE 2300 supports LBA addressing so that you can use an IDE hard drive above 528MB with no problems and ECP/PPP parallel printer ports, and IDE CD-ROMs.

The documentation is excellent and displays each of the jumper blocks along with the various options. As you might expect, you can enable or disable every feature of this board. This is a great product. (Promise Technology, Inc., 1460 Koll Circle, San Jose, CA 95112. 408/452-1180)

Product Announcements

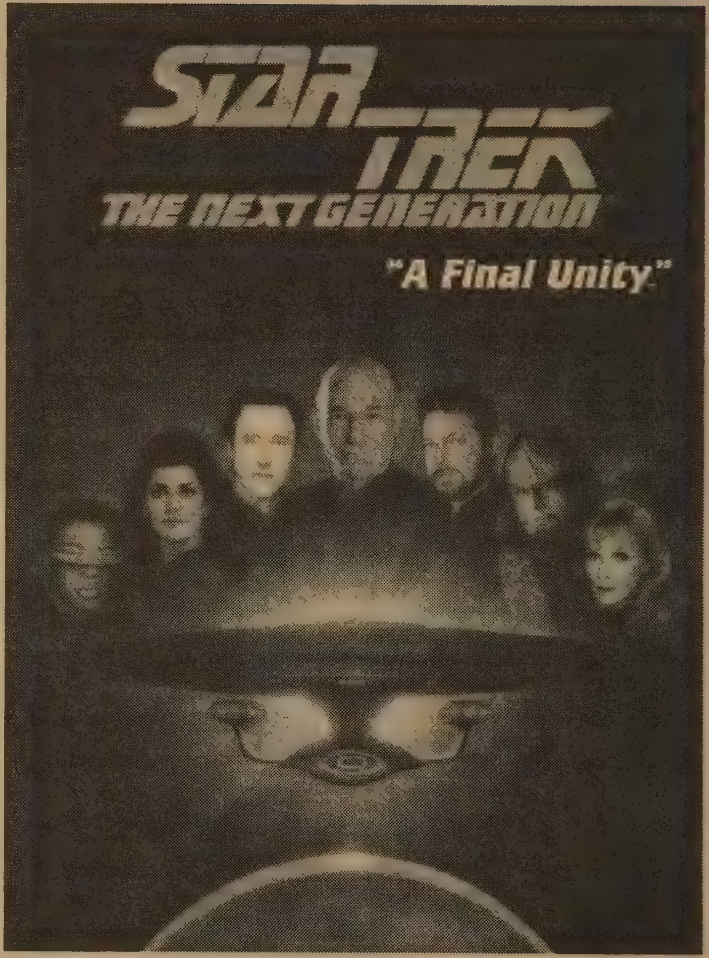
CD-ROM

First Person: Mumia Abu-Jamal—Live from Death Row

The next CD-ROM in Voyager's acclaimed First Person series, Mumia Abu-Jamal—Live from Death Row, includes videotaped interviews with Mumia Abu-Jamal, the text of his book, *Live from Death Row* (published by Addison Wesley), and audio commentaries by Abu-Jamal, some of which have already aired on NPR radio stations throughout the country. An award winning journalist, Mumia Abu-Jamal is a former president of the Philadelphia chapter of the Association of Black Journalists, a former member of the Black Panther Party, and, supporter of the MOVE organization. He has been on death row for thirteen years, accused of the murder of a Philadelphia policeman. With his execution set for August 17, 1995, organizations including Amnesty International, Human Rights Watch, The National Black Police Association, and Pen International have joined in a call for a new trial. ($29.95, Macintosh and Windows) The Voyager Co., 578 Broadway, Suite 406, New York, NY 10012. (212)431-5199.

Star Trek: The Next Generation "A Final Unity"

This PC CD-ROM takes the *Star Trek* genre to a new level of interactivity, utilizing lifelike 3-D animation, authentic digitized sound effects and music, and the voices of the seven principal actors in the popular series. Each actor individually recorded more than an hour of dialogue for the game, contributing to the multitude of plot variations. Players embark on missions for the Federation and find themselves caught up in an unfolding mystery with the crew of the Spaceship Enterprise. Within this intergalactic adventure, the player must maneuver the Enterprise within a 3-D tactical space, beam down Away Teams to investigate alien planets, and use the vast resources of the *U.S.S. Enterprise* to meet the challenges that await. Spectrum HoloByte, Inc., 2490 Mariner Sq. Loop, Alameda, CA 94501. (510)522-3584.

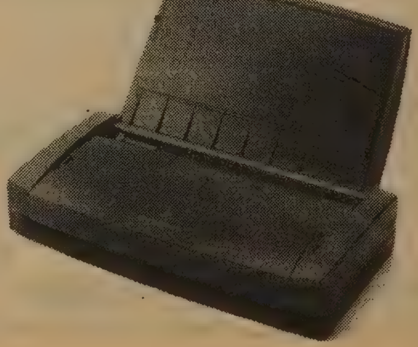


Macintosh Hardware

Color StyleWriter 2200

Weighing just over 3 lbs. and measuring less than 12" across by 2.2" high, the Color StyleWriter 2200 mirrors the high-quality color performance of its siblings in Apple's color inkjet line and fits

continued on page 247



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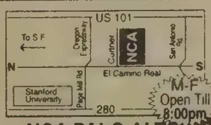

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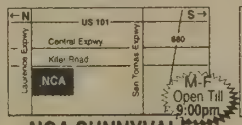

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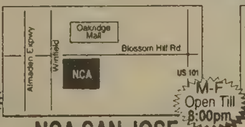

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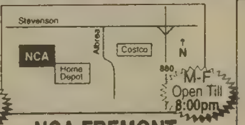

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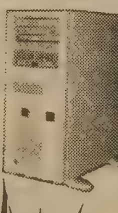

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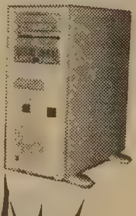

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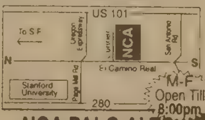

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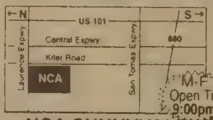

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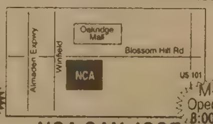

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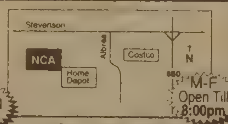

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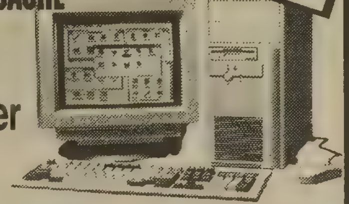

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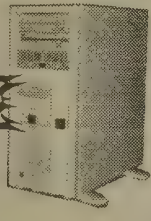


- NCA's 486 VLB-128K Cache
- 4MB RAM
- Super EIDE/IO
- Mitsumi 3.5" floppy drive
- Mini tower case
- 101 keyboard
- VLB 1MB Video Card
- Quantum MV540A-540MB IDE EIDE Hard Drive
- Internal Quad-Speed CD-ROM Drive
- SoundBlaster Vibra 16-bit sound card
- Labtec stereo speakers
- Microsoft Encarta '95 CD-ROM Title
- Mad Dog II CD-ROM title

Comes with MS DOS & Windows installed!

Encarta '95 & Mad Dog II CD-ROM Titles Included FREE!

Quantum™ MiTAC Labtec MICROSOFT. WINDOWS. MITSUMI

Monitor not included

w/INTEL DX2/66 .... **$1189**

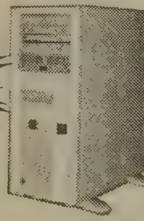
w/AMD DX4/100 .... **$1199**

NCA's High Quality *Alexis QP*

PCI TOWER SYSTEMS

540MB/4MB RAM-256K Cache Quad-Speed Multimedia Computer

Based on NCA's High Quality *PCI MotherBoard*



- NCA's 486 3-PCI-256K
- 4MB RAM
- Integrated EIDE/IO
- Mitsumi 3.5" floppy drive
- Mini tower case
- 101 keyboard
- PCI 1MB Video Card
- Quantum MV540A-540MB E-IDE Hard Drive
- Internal Quad-Speed CD-ROM Drive
- SoundBlaster Vibra 16-bit sound card
- Labtec stereo speakers
- Microsoft Encarta '95 CD-ROM
- Mad Dog II CD-ROM title

Comes with MS DOS & Windows installed! Monitor not included

Encarta '95 & Mad Dog II CD-ROM Titles Included FREE!

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w/INTEL DX2/66 .... **$1229**

w/AMD DX4/100 .... **$1239**

NCA's NEW *ALEXIS SERIES*

PENTIUM 120MHZ TOWER SYSTEM

1.2GB/8MB RAM-256K CACHE

All Systems Come With MS Windows & DOS Installed!

Pre-Built Ready To Run!

Quad-Speed Multimedia Computer

- NCA's elegant tower case, 200W power supply
- 4-PCI / 4-ISA (P&P ready), 256K cache
- Intel P120 w/ Heatsink
- 8MB RAM/70 pin SIMMs
- 101 keyboard
- PCI IDE & floppy controller card - 2 floppies, 2 hard drives, 2 serial on board
- Diamond 2MB PCI video card
- Western Digital 1 2GB Fast IDE hard drive
- 1.44MB floppy drive
- Mitsumi internal Quad-Speed 600/KB/s CD-ROM drive
- SoundBlaster Vibra 16-bit sound card
- Microsoft Mouse
- Stereo speakers
- FCC certified

Sound BLASTER WESTERN DIGITAL intel inside pentium DIAMOND

$2249

Monitor not included

WHILE SUPPLIES LAST!

NCA's High Quality

486DX4/100 TOWER PCI

540MB/4MB RAM-256K Cache Quad-Speed Multimedia Computer

- NCA's elegant tower case, 200W power supply
- 3-PCI / 4-ISA / 1SH, 256K cache
- AMD 486DX4/100 with Heatsink
- 4MB RAM/70 pin SIMMs
- 101 keyboard
- PCI IDE & floppy controller card (16550)- 2 floppies, 2 hard drives, 2 serial on board
- Diamond 1MB PCI video card
- Seagate 540MB IDE hard drive
- 1.44MB floppy drive
- Mitsumi internal Quad-Speed 600/KB/s CD-ROM drive
- 16-bit sound card
- Amplified speakers
- Microsoft Mouse
- FCC certified

Pre-Built Ready To Run!

DIAMOND MITSUMI Seagate

$1249

Monitor not included

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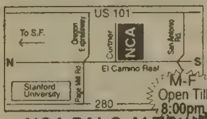

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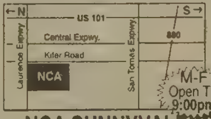

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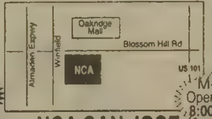

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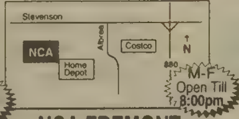

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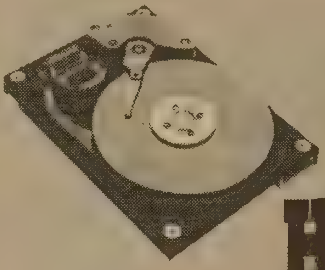

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CONNER
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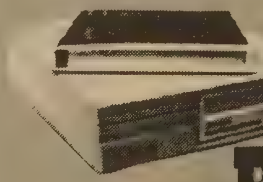
IBM



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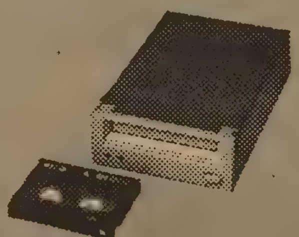
IBM

Opticals

PINNACLE MICRO
Maxoptix
FUJITSU
HEWLETT PACKARD



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San Antonio Rd
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El Camino Real
Stanford University
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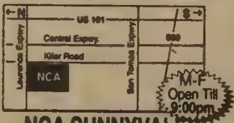
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US 101
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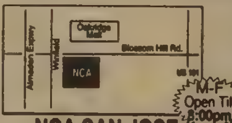
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Blossom Hill Rd.
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Winfield
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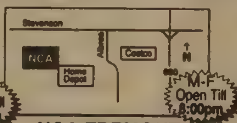
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NEW!

1.6GB 3.5"x1" E-IDE

- 71626A
- 12ms
- 256K Cache

$449.95

IDE

425MB E-IDE... $137.95
7425AV, 12ms, 2Yr. Warr.

540MB E-IDE... $169.95
7540AV, 12ms, 2 Yr. Warr.

850MB E-IDE... $195.95
7850A, 12ms, 2Yr. Warr.

1.2GB E-IDE $265.95
71260A, 12ms, 256K Cache, 2 Yr. Warr.

WESTERN DIGITAL

Accept only the finest Caviar

850MB 3.5"x1" EIDE

- AC2850
- 10ms
- 4500 RPM
- 3yr. warr.

$209.95

540MB E-IDE $175.95
11MS. WD2540, 3Yr. Warr.

1.2GB E-IDE....... $310.95
10MS. WD31200A, 128K Cache, 3Yr. Warr.

1.6GB E-IDE....... $499.95
10MS. AC31600, 128K Cache, 5200RPM

IBM®

1.0GB 3.5"x1" FAST SCSI-II

- 10.5ms
- 5400 RPM
- 5 yr. warr.
- 512K

$419.95 INTERNAL **$529.95** EXTERNAL

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540MB IDE.......... $185.95
3.5"X1" 12ms, 2yr. warr.

1.0GB IDE $339.95
"SPIT FIRE" 3.5"X1" 8.5ms, 512K Cache, 5yr. warr.

1.0GB IDE $299.95
"DESK STAR" 3.5"X1" 10.5ms, Fast ATA, 512K Cache, 5yr. warr.

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NEW!

	INTERNAL	EXTERNAL
2.3GB SCSI-II .	$1099.95	$1199.95
7.5ms, 7200 RPM, 3.5", 5yr. warr.		
4.5GB FAST SCSI-II...	$1629.95	$1739.95
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QUALITY EXTERNAL SCSI CASE

For MAC, SUN, Silicon Graphics, and IBM Compatibles

High Quality Metal Cases
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Noise-Free Fan
External SCSI ID Switch
Power Cable & Hardware
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See Page 8

CONNER®

4.2GB 3.5"x1" SCSI-II

- CFP4207F
- 7200RPM
- 8.5ms
- 5 yr. warr.

$1088.95 INTERNAL **$1198.95** EXTERNAL

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850MB IDE $195.95
Fast, CFS850A Low Profile 3.5"x1", 2yr. warr.

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FAST, CFS1275A, 2yr. warr.

SCSI

1.0GB SCSI ..... $399.95 .... $509.95
CFP1080S, 256K, 10ms, 3.5"x1", 5yr. warr.

1.0GB SCSI ..... $549.95 .... $659.95
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2.14GB SCSI ... $719.95 .... $829.95
CFP2105S, 5400RPM, 8.5ms, 5yr. warr.

2.14GB SCSI ... $829.95 .... $939.95
CFP2107S, 7200RPM, 8.5ms, 5yr. warr.

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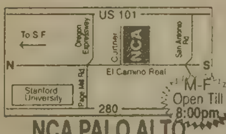
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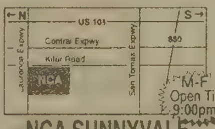
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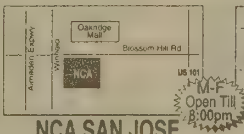
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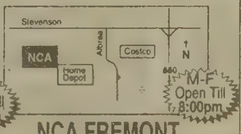
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Quantum®

Specify Quantum, Specify Quality

MAVERICK SERIES®

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
540MB IDE	QM30540MVA	14ms	3.5"X1"	$\$174^{95}$	N/A
540MB SCSI	QM30540MVS	14ms	3.5"X1"	$\$185^{95}$	$\$295^{95}$

LIGHTENING SERIES®

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
730MB IDE	QM30730LTA	11ms	3.5"X1"	$\$195^{95}$	N/A
730MB SCSI	QM30730LTS	11ms	3.5"X1"	$\$238^{95}$	$\$348^{95}$

DAYTONA SERIES - 2.5"

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
256MB IDE	QM20256DYA	12ms	2.5"	$\$247^{95}$	N/A
341MB IDE	QM20341DYA	12ms	2.5"	$\$279^{95}$	N/A
514MB IDE	QM20514DYA	12ms	2.5"	$\$325^{95}$	N/A
256MB SCSI	QM20256DYS	12ms	2.5"	$\$249^{95}$	$\$359^{95}$
341MB SCSI	QM20341DYS	12ms	2.5"	$\$289^{95}$	$\$424^{95}$
514MB SCSI	QM20514DYS	12ms	2.5"	$\$349^{95}$	$\$539^{95}$

EUROPA SERIES - 2.5"

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
540MB IDE	QM20540EUA	12ms	2.5"	$\$397^{95}$	N/A
810MB IDE	QM20810EUA	12ms	2.5"	$\$448^{95}$	N/A
1.08GB IDE	QM21080EUA	12ms	2.5"	$\$509^{95}$	N/A

FIREBALL SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
540MB FastATA-2	QM30540FBA	5400	12ms	3.5"X1"	$\$178^{95}$	N/A
540MB FastSCSI-2	QM30540FBS	5400	11ms	3.5"X1"	$\$188^{95}$	$\$298^{95}$
1.0GB FastATA-2	QM31080FBA	5400	12ms	3.5"X1"	$\$239^{95}$	N/A
1.0GB FastSCSI-2	QM31080FBS	5400	11ms	3.5"X1"	$\$359^{95}$	$\$469^{95}$

TRAILBLAZER SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
420MB FastATA-2	QM30420TRA	4500	14ms	3.5"X1"	$\$149^{95}$	N/A
420MB FastSCSI-2	QM30420TRS	4500	14ms	3.5"X1"	$\$175^{95}$	$\$285^{95}$
850MB FastATA-2	QM30850TRA	4500	14ms	3.5"X1"	$\$205^{95}$	N/A
850MB FastSCSI-2	QM30850TRS	4500	14ms	3.5"X1"	$\$255^{95}$	$\$365^{95}$

GRAND PRIX SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
4.2GB	XP34301GPS	7200	8.5ms	3.5"	$\$1059^{95}$	$\$1169^{95}$
4.2GB-Fast SCSI-II	XP34301SW	7200	8.5ms	3.5"	$\$1099^{95}$	$\$1209^{95}$

ATLAS SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
2.1GB	XP32150S	7200	8.5ms	3.5"	$\$879^{95}$	$\$989^{95}$
2.1GB-Fast SCSI-II	XP32150SW	7200	8.5ms	3.5"	$\$909^{95}$	$\$1019^{95}$
4.3GB	XP34300S	7200	8.5ms	3.5"	$\$1529^{95}$	$\$1639^{95}$
4.3GB-Fast SCSI-II	XP34300SW	7200	8.5ms	3.5"	$\$1539^{95}$	$\$1649^{95}$

CAPELLA SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
2.2GB	VP32210S	5400	8.5ms	3.5"	$\$729^{95}$	$\$839^{95}$
2.2GB-Fast SCSI-II	VP32210SW	5400	8.5ms	3.5"	$\$775^{95}$	$\$885^{95}$

2 year warranty on all drives - 5 year on all over 1.0GB - 1 year on all 2.5"

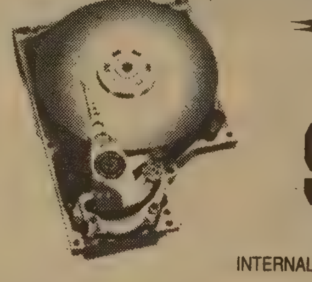
▶ FACTORY NEW WITH FULL FACTORY WARRANTY

Seagate

BARRACUDA SERIES®

2.1GB SCSI-II

- ST32550N
- 3.5", 8ms
- 7200RPM
- Fast SCSI-II
- 500,000MTBF
- 5 year warranty



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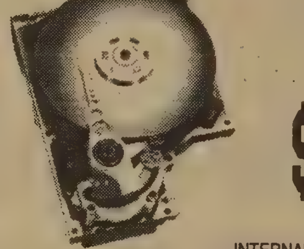
INTERNAL **$\$975^{95}$**

External.. $\$1085^{95}$

4.3GB SCSI-II

- ST15230N
- 3.5", 9ms
- 5400RPM
- Fast SCSI-II
- 500,000MTBF
- 5 year warranty



Lowest Price Guaranteed*

INTERNAL **$\$1059^{95}$**

External.. $\$1169^{95}$

IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRICE
540MB	ST3660A		12ms	3.5"X1"	$\$165^{95}$
850MB	ST5850A	256K	11ms	3.5"X1"	$\$209^{95}$
1.08GB	ST31220A	Enhanced IDE	12ms	3.5"X1"	$\$255^{95}$

SCSI

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
1.05GB	ST31230N	5400	9ms	3.5"X1"	$\$465^{95}$	$\$575^{95}$
1.05GB-Fast SCSI-II	ST31230W	5400	9ms	3.5"X1"	$\$629^{95}$	$\$739^{95}$
2.1GB	ST32430N	5400	9ms	3.5"	$\$849^{95}$	$\$959^{95}$
2.1GB-Fast SCSI-II	ST32430W	5400	9ms	3.5"X1"	$\$949^{95}$	$\$1059^{95}$
2.1GB	ST32550N	7200	8ms	3.5"X1"	$\$975^{95}$	$\$1085^{95}$
2.1GB-Fast SCSI-II	ST32550W	7200	8ms	3.5"X1"	$\$1125^{95}$	$\$1235^{95}$
4.3GB	ST15150N	7200	8ms	3.5"	$\$1419^{95}$	$\$1529^{95}$
4.3GB-Fast SCSI-II	ST15150W	7200	8ms	3.5"	$\$1575^{95}$	$\$1685^{95}$
4.3GB	ST15230N	5400	9ms	3.5"	$\$1059^{95}$	$\$1169^{95}$
4.3GB-Fast SCSI-II	ST15230W	5400	9ms	3.5"	$\$1149^{95}$	$\$1259^{95}$
9.0GB	ST410800N	5400	10ms	5.25"	$\$2375^{95}$	$\$2575^{95}$

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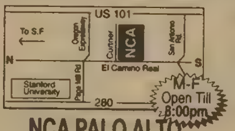

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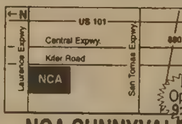

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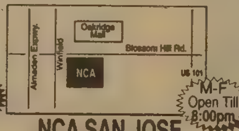

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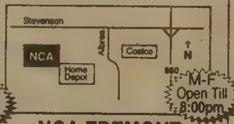

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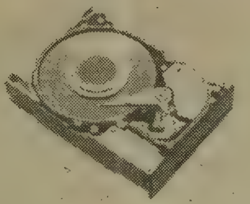
- 5400RPM
- 5.25"
- 5 year warranty



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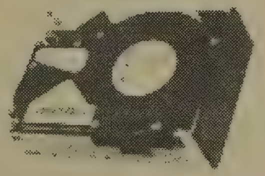
- 5 year warranty



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CAPACITY	M/N	CACHE	SEEK	SIZE	Internal	External
1.75GB	MC2217S	5400	10ms	3.5"	$759.95	$869.95
1.75GB	MC2217AV		Audio/Video		$849.95	$959.95
2.0GB	MC4221	7200	8.5ms	3.5"	$965.95	$1075.95
2.0GB	MC4221AV		Audio/Video		$1088.95	$1198.95
3.0GB	MC1936	5400	11ms	5.25"	$799.95	$999.95
3.0GB	MC1936AV		Audio/Video		$825.95	$1025.95
4.0GB	MC3243S	7200	8.5ms	3.5"	$1325.95	$1435.95
4.0GB	MC3243AV				$1485.95	$1595.95
9.1GB	MC1991	5400	10ms	5.25"	$2099.95	$2299.95
9.1GB	MC1991AV		Audio/Video		$2299.95	$2499.95

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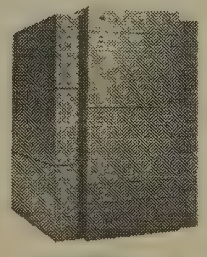

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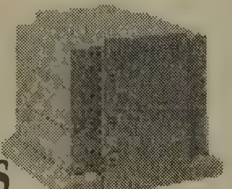

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- 10ms Seek Time
- 5400 RPM
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IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRICE
530MB	M2684TAU	256K	12ms	3.5"x1"	$165.95

SCSI

CAPACITY	M/N	CACHE	SEEK	SIZE	Internal	External
525MB	M1603S	512K	10ms	3.5"x1"	$195.95	$305.95
530MB	M2684SAU	256K	12ms	3.5"x1"	$195.95	$305.95
1.0GB	M1606		10ms	3.5"X1"	$399.95	$509.95

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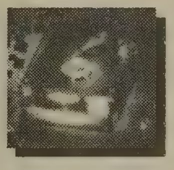

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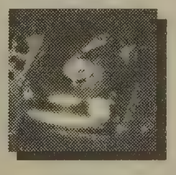
- 5-Yr. Warr.



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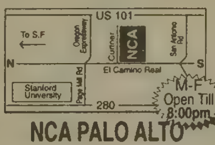

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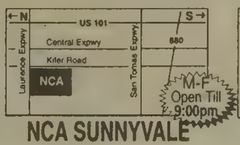

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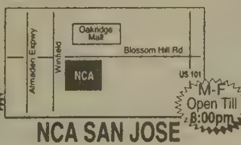

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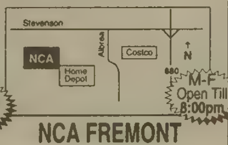

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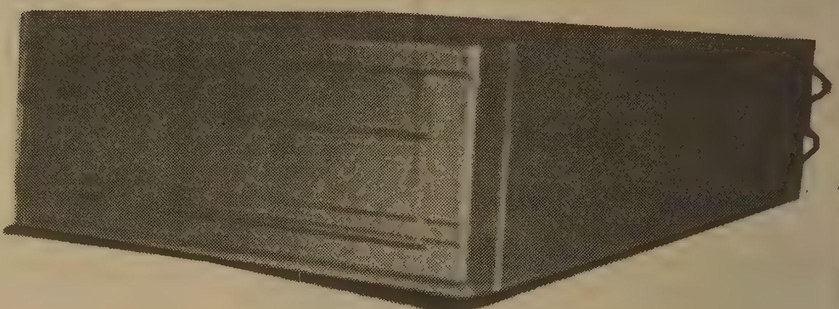

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SIZE	INT. DRIVE	SEEK	WARRANTY	PRICE
420Mb	Quantum Trailblazer	14ms	2Yr	$\$285^{95}$
540Mb	Quantum Maverick	14ms	2.Yr	$\$295^{95}$
525Mb	Fujitsu	10ms	2Yr	$\$305^{95}$
530Mb	Fujitsu	12ms	2Yr	$\$305^{95}$
540Mb	Quantum Fireball	11ms	2Yr	$\$298^{95}$
540Mb	Quantum Lightening	11ms	2Yr	$\$295^{95}$
730Mb	Quantum Lightening	11ms	2Yr	$\$348^{95}$
850Mb	Quantum Trailblazer	14ms	2Yr	$\$365^{95}$
1.0Gb	Quantum Fireball	11ms	2Yr	$\$469^{95}$
1.0Gb	Conner	<10ms	5Yr	$\$509^{95}$
1.0Gb	Conner	FAST WIDE	5Yr	$\$659^{95}$
1.0Gb	IBM	10.5ms	5Yr	$\$529^{95}$
1.0Gb	Fujitsu	10ms	3Yr	$\$509^{95}$
1.05Gb	Seagate	9ms	5Yr	$\$575^{95}$
1.05Gb	Seagate-FW	9ms	5Yr	$\$739^{95}$
1.2Gb	HP3724S	9.5ms	5Yr	$\$575^{95}$
1.75Gb	Micropolis	10ms	5Yr	$\$869^{95}$
1.75Gb	Micropolis	Audio/Visual	5Yr	$\$959^{95}$
2.0Gb	Micropolis	8.5ms	5Yr	$\$1075^{95}$
2.0Gb	Micropolis	Audio/Visual	5Yr	$\$1198^{95}$
2.1Gb	Quantum XP32150S	8.5ms	5Yr	$\$989^{95}$
2.1Gb	Quantum XP32150SW	Fast SCSI-2	5Yr	$\$1019^{95}$
2.1Gb	IBM	7.3ms	5Yr	$\$1199^{95}$
2.14Gb	Conner	8.5ms	5400rpm	$\$829^{95}$
2.14Gb	Conner	8.5ms	7200rpm	$\$939^{95}$
2.1Gb	Seagate ST32430N	9ms	5Yr	$\$959^{95}$
2.1Gb	Seagate ST32430W	Fast SCSI-2	5Yr	$\$1059^{95}$
2.1Gb	Seagate ST32550N	9ms	5Yr	$\$1085^{95}$
2.1Gb	Seagate ST32550W	Fast SCSI-2	5Yr	$\$1235^{95}$
2.1Gb	HP3725S	8.9ms	5Yr	$\$949^{95}$
2.2Gb	Quantum VP32210S	8.5ms	5Yr	$\$839^{95}$
4.0Gb	Micropolis	8.5ms	5Yr	$\$1435^{95}$
4.0Gb	Micropolis	Audio/Visual	5Yr	$\$1595^{95}$
4.2Gb	Conner	8.5ms	7200rpm	$\$1198^{95}$
4.2Gb	Quantum XP34301GPS	8.5ms	7200rpm	$\$1169^{95}$
4.2Gb	Quantum XP34301SW	8.5ms	7200rpm	$\$1209^{95}$
4.3Gb	Seagate 15230N	9ms	5Yr	$\$1169^{95}$
4.3Gb	Seagate 15230W	FAST ACSI-2	5Yr	$\$1259^{95}$
4.3Gb	Seagate 15150N	8ms	5Yr	$\$1529^{95}$
4.3Gb	Seagate 15150W	Fast SCSI-2	5Yr	$\$1685^{95}$
4.3Gb	Quantum XP34300S	8.5ms	7200rpm	$\$1639^{95}$
4.3Gb	Quantum XP34300SW	8.5ms	7200rpm	$\$1649^{95}$
4.5Gb	IBM-Ultra Star Series	8ms	7200rpm	$\$1739^{95}$

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EXTERNAL FH FIXED SCSI DISK DRIVES

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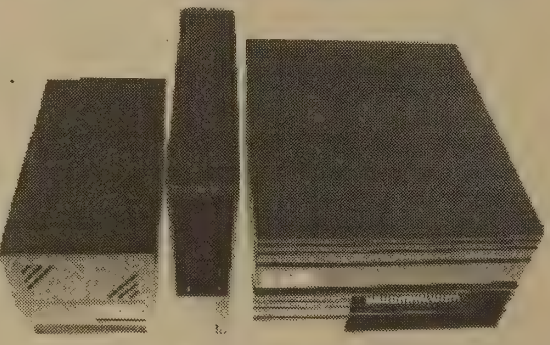
SIZE	MAKE	SEEK	WARRANTY	PRICE
3.0Gb	Micropolis 1936	11ms	5Yr	$\$999^{95}$
3.0Gb	Micropolis 1936AV	Audio/Visual	5Yr	$\$1025^{95}$
9.0Gb	Seagate 410800N	10ms	5Yr	$\$2575^{95}$
9.1Gb	Micropolis 1991	10ms	5Yr	$\$2299^{95}$
9.1Gb	Micropolis 1991AV	Audio/Visual	5Yr	$\$2499^{95}$



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250Mb	Connor Viper	2150S	1/4"	$\$395^{95}$
525Mb	Conner Viper	2525S	1/4"	$\$555^{95}$
525Mb	WangTek	E5525S	1/4"	$\$515^{95}$
1.3Gb	Connor Viper	2750	1/4"	$\$897^{95}$
1.5Gb	Exabyte	FS1G		$\$899^{95}$
2.5Gb	Exabyte	EXB8205	8mm	$\$1389^{95}$
5.0Gb	Exabyte	EXB8505	8mm	$\$2279^{95}$
2.0Gb	HP	35470	4mm	$\$864^{95}$
2.0Gb	Connor Python	4320NT	4mm	$\$895^{95}$
2.0Gb	WangDat	3100	4mm	$\$845^{95}$
4.0Gb	Connor Python	4324	4mm	$\$933^{95}$
5.0Gb	Exabyte	EXB4200C	4mm	$\$965^{95}$
2-4.0Gb	HP	35480	4mm	$\$947^{95}$
4-8.0Gb	WangDat	3200	4mm	$\$889^{95}$
4-8.0Gb	WangDat	3400Dx	4mm	$\$1088^{95}$
4-8.0Gb	HP	C1533A	4mm	$\$1117^{95}$

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TOSHIBA	5301B	150ms	600Kb	$\$389^{95}$
NEC	3Xp	240ms	450kb	$\$375^{95}$
NEC	4Xe	220ms	600kb	$\$469^{95}$
NEC	6Xe	145ms	900kb	$\$579^{95}$
Plextor	Six-Speed		900kb	$\$575^{95}$
Plextor	Quad-Speed 256 CACHE		600kb	$\$419^{95}$
PIONEER	604X (6 disk changer)	300ms	612Kb	$\$788^{95}$
PIONEER	1804 (18 disk changer)	300ms	614Kb	$\$1778^{95}$
Backpack	DOUBLE-SPEED	250ms	300kb	$\$297^{95}$
Backpack	QUAD-SPEED	300ms	600kb	$\$384^{95}$
Panasonic	200M QUAD-SPEED	200ms	600kb	$\$385^{95}$
Adonics	Dual-Speed			$\$225^{95}$
Adonics	QUAD-SPEED			$\$310^{95}$
Chinon	CD-545S Quad-Speed	230ms	600kb	$\$409^{95}$

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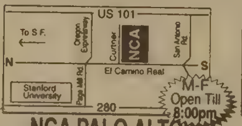

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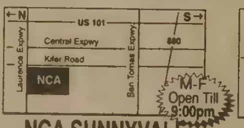

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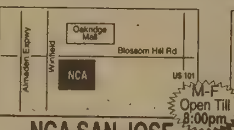

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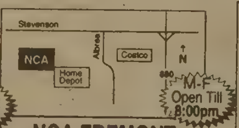

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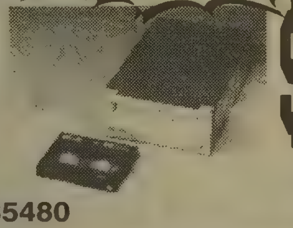

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SCSI 4MM DAT

CAPACITY	MODEL	INTERNAL	EXTERNAL
2.0GB	35470 DAT	$754.95	$864.95
2-4GB	35480 DAT (bare drive)	$848.95	$947.95
4-8GB	C1533A	$1009.95	$1117.95
HP Mounting Bracket for DAT tape drive		$35.95	

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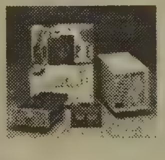


FS1G

1.5 GB SCSI Tape Storage

COMPLETE SYTEM INCLUDES:
- •Internal FS1G Tape Drive
- •Adaptec 16-Bit SCSI Controller Card
- •File Secure Software
- •Up to 30 MB/Min. Transfer Rate
- •One Data Cartridge

External FS1G Kit	$899.95
Internal Unit (2501)	$479.95

$695.95

4MM DAT CARTRIDGE

CAPACITY	MODEL	INTERNAL	EXTERNAL
5GB	EXB-4200C	$855.95	$965.95

2.5 GB 8MM DAT SUBSYSTEM

CAPACITY	MODEL	INTERNAL	EXTERNAL
2.5GB	EXB-8205	$1279.95	$1389.95

5 GB 8MM DAT SUBSYSTEM

CAPACITY	MODEL	INTERNAL	EXTERNAL
5.0GB	EXB-8505	$1988.95	$2279.95

CONNER *The BEST name in SCSI Back-up Drives*

SOF•STOR

for IBM Compatibles, MAC, SUN, & Silicon Graphics

Formerly ARCHIVE VIPER™

- ◆ 6MB/MIN
- ◆ SCSI
- ◆ 1/4" TAPE UNIT

SCSI
- ◆ 36MB/MIN
- ◆ SCSI-2
- ◆ 1/4" TAPE UNIT

1.3GB 2750

INTERNAL	$785.95
EXTERNAL	$897.95

250 MB 2150S

INTERNAL	$317.95
EXTERNAL	$395.95
Int. W/Software	$379.95

525 MB 2525S

INTERNAL	$445.95
EXTERNAL	$555.95
Int. W/Software	$535.95

PYTHON™

SCSI 4mm DAT Tape Backups

- ◆ 1MB Cache Buffer
- ◆ 11MB/MIN.

2 GB. 4320 NT

INTERNAL	$790.95
EXTERNAL	$895.95

4-8GB. 4352XP

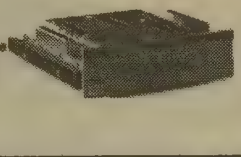
INTERNAL	$1065.95
EXTERNAL	$1177.95

4 GB. 4324 TURBO

INTERNAL	$822.95
EXTERNAL	$933.95

NEW!

COLORADO MEMORY SYSTEMS



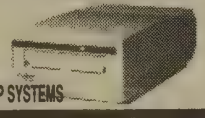
RUNS OFF FLOPPY PORT

CAPACITY	MODEL/TYPE	INTERNAL
350MB	DJ30 JUMBO350	$149.95
800MB	T-1000 (TRAVAN TYPE DRIVE)	$199.95
1.4GB	DJ50 JUMBO1400 w/CONTROLLER	$347.95

350MB UPGRADE KIT (FROM 250MB TO 350MB)	$49.95
EXTERNAL KIT WITH CARD AND CABLES KE-10	$109.95
EXTERNAL TAPE PORT AB-11	$35.95
FC-20 TAPE CONTROLLER, WITH CABLES	$85.95
TC-15 HIGH PERFORMANCE 16-BIT CONTROLLER	$179.95

Trakker™

PARALLEL PRINTER PORT EXTERNAL TAPE BACK-UP SYSTEMS



RUNS OFF PARALLEL PRINTER PORT

CAPACITY	MODEL/TYPE	EXTERNAL
350MB	TRAKKER 350	$329.95
680MB	TRAKKER 700	$379.95

POWER TAPES HIGH CAPACITY TAPE DRIVES

CAPACITY	MODEL/TYPE	INTERNAL	EXTERNAL
1.0GB	PT-10	$579.95	$749.95
2.0GB	PT-25	$919.95	$1025.95
4.0GB	PT-50	$1111.95	$1234.95

CONNER TAPE•STOR

TAPE BACKUP

CAPACITY	MODEL/TYPE	INTERNAL	EXTERNAL
420MB	420FBE	$134.95	$279.95
800MB	TST800(TRAVAN TYPE DRIVE)	$199.95	$279.95
1.7GB	TSM1700	$309.95	N/A
4.0GB	4000RFBC	$519.95	N/A

WangDAT™

Internal **4-8GB**

3400DX DAT Tape Backup

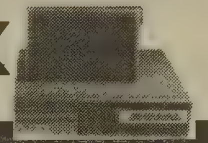
$984.95

External $1088.95

SCSI 4MM DAT

CAPACITY	MODEL	INTERNAL	EXTERNAL
2.0GB	3100 DAT	$745.95	$845.95
4-8GB	3200 DAT	$789.95	$889.95

WANGTEK



SCSI TAPE

CAPACITY	MODEL	INTERNAL	EXTERNAL
250MB	5150S	$305.95	$405.95
525MB	5525S	$475.95	$515.95

MicroSolutions Computer Products backpack *Tape Drive*

350MB Parallel Port External Tape Backup

- ◆ QIC 80 uses 2120 tapes
- ◆ Software for unattended backups
- ◆ Twice as fast as internal floppy drive
- ◆ Window and DOS Software Included
- ◆ 2 Year Warranty

$279.95

800MB Parallel Port External Tape Backup

NEW!

- ◆ *TRAVAN TECHNOLOGY*
- ◆ QIC 80 uses 2120 tapes
- ◆ Software for unattended backups
- ◆ Window and DOS Software Included
- ◆ 2 Year Warranty

$304.95

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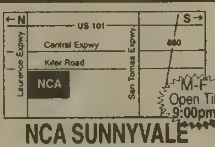

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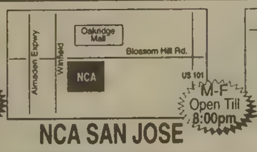

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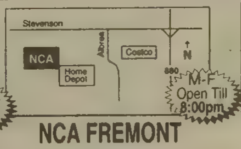

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REMOVABLES

OPTICALS

HEWLETT PACKARD

1.3GB Multifunction Rewritable & WORM Drive
- HP C1716T
- SCSI-2 1.3GB

INTERNAL
$1999.95

EXTERNAL.....$2299.95

EXTERNAL
C2550 WITH CARTRIDGE
$2419.95

1.3GB Cartridge: $99.95

FUJITSU NEW!

230MB Rewritable, Removable Optical SCSI Drives

External SCSI 230MB, 3.5" Rewritable Optical
- External optical drive
- Using 2512 internal
- Includes 1 cartridge
- Fast seek time
- 3600RPM
- 256K Cache
- Software for MAC(free upon request)

$639.95

Internal 230MB, 3.5" Rewritable Optical
- Bare optical drive
- 2512
- Low Profile, Only 1"
- 3600RPM
- 256K Cache
- Fast Seek Time

NEW!

$525.95

RECORDABLE CD DRIVES

PINNACLE MICRO

Recordable Compact Disc

COMPACT disc

RCD 1000 - External for Macintosh	$1429.95
RCD 1000 - PCA20 - Ext. for PC W/ Adaptec 1520	$1429.95
RCD 1000PCAi/20 - Int. for PC W/ Adaptec 1520	$1265.95

All Pinnacle Micro recordable CD drives come with SCSI cable, terminator and premastering software

Recordable media: RCD74 - 74 min ... $24.95

IBM NEW!

IMAGESTAR FAMILY

230MB, INTERNAL BASIC MAGNEDO REMOVABLE 3.5"	$559.95
230MB INTERNAL KIT MAGNEDO REMOVABLE 3.5"	$659.95
230MB EXTERNAL MAGNEDO REMOVABLE 3.5"	$689.95
1.3GB INTERNAL MO 5.25" REMOVABLE HH (SINGLE)	$1739.95
1.3GB EXTERNAL MO 5.25" REMOVABLE FH (SINGLE)	$2075.95

FLOPPY DRIVES

TEAC	1.44MB 3.5"	$37.95
	1.2MB 5.25"	$45.95
	1.2/1.44MB Dual Drive	$91.95
MITSUMI	1.44MB 3.5"	$29.95
	1.2MB 5.25"	$39.95

With bracket on any floppy drive, add $6

REMOVABLES

SyQuest

High Quality Removable Drives

88MB SYQUEST REMOVABLE

External 88MB Drive
- 88MB Cartridge
- Cables
- Reads & Write Both 44 & 88 MB
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$375.95

Internal Bare Drive $259.95

105MB 3.5" SYQUEST REMOVABLE

External SCSI 105MB Drive
- 14ms Seek Time
- 105MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$375.95

Internal SCSI Bare Drive	$233.95
Internal IDE Bare Drive	$179.95

200MB SYQUEST REMOVABLE

External 200MB Drive
- 200MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

499.95

Internal SCSI Bare Drive $357.95

270MB SYQUEST REMOVABLE

External SCSI Drive
- External 270MB 3.5" SCSI Removable Cartridge Drive
- Unlimited Storage Capacity
- 270MB External Drive
- Cables & Software for MAC
- 13.5ms Seek Time
- Includes one cartridge

$467.95

Internal Bare IDE Drive	$333.95
Internal Bare SCSI Drive	$338.95

SYQUEST MEDIA

CAPACITY	SINGLE	5-PACK
44MB Cartridge (5.25")	$46.95	$225.95
88MB Cartridge (5.25")	$52.95	$255.95
105MB Cartridge (3.5")	$57.95	$275.95
200MB Cartridge (5.25")	$79.95	$389.95
270MB Cartridge (3.5")	$63.95	$310.95

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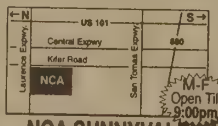

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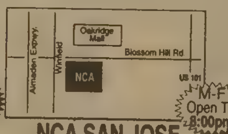

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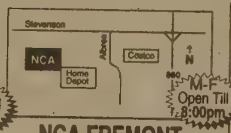

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CONTROLLERS

DTC DATA TECHNOLOGY

Your Enhanced IDE Solutions Source

- High performance - Transfer rates to 16.6MB/sec (mode4)
- Expandability - Supports 4 devices including ATAPI CD-ROMs
- Compatability - LBA support for drives >528MB (system BIOS support also required, except DTC2278EB)
- Driver support - 32bit enhanced drives for all major operating systems

DTC 2278D ....**VESA** ....**w/ multi I/O** **$24.95**

DTC 2278E ....**VESA** ....**w/ fast serial & parallel** **$38.95**

DTC 2278EB ......**VESA** ....**w/ BIOS for >528MB support & fast serial & parallel** **$42.95**

Your Price Performance SCSI Solution Source

- High performance - 10MB/sec.
- Connectivity - Supports up to 7 SCSI devices
- Driver Support - Supports all major operating systems

PCI Multi Connector3130B **$119.95**

DTC 3274 ....**VESA Bus Master** **$179.95**

adaptec®

PCI to SCSI Multichannel Kit™

32-bit PCI to FAST/WIDE SCSI-2 multichannel host adapter

- AHA 3940/W with 2 independent PhaseEngine®RISC powered SCSI channels
- 40MB/sec. transfer rate across multiple SCSI channels in a single PCI slot
- Tranfer rate of 133MB/sec. to server's PCI local-bus
- OS/2, Windows 95, Windows NT, NetWare & UNIX support
- Complete support for 8-bit & 16-bit peripherals
- Supports up to 30 SCSI devices per adapter, conserving PCI slots

$474.95

PCI SCSI Master™

32-bit PCI to FAST/WIDE SCSI-2 adapter

- AHA 2940/W with PhaseEngine®RISC powered PCI channel
- Designed for PCI-2.0 compliant systems
- 20MB/sec. synchronous transfer rate on the SCSI bus
- 133MB/sec. burst data rate on the PCI local-bus
- Complete support for 8-bit peripherals
- Supports up to 15 SCSI devices per adapter, conserving PCI slots

$304.95

SCSI Master™

16-Bit ISA TO FAST SCSI-2 bus master host adapter for CD-ROM connectivity

- AHA 1542CP kit
- OS/2, Windows 95, Windows NT, NetWare & UNIX support
- UP to 10MB/sec. transfer rate on the SCSI bus
- Complete support for 8-bit peripherals such as hard drives, tape backup drives, CD-ROM and Magneto-Optical drives
- Plug and Play Windows 95 compatible

$235.95

TotalCD™

16-Bit SCSI-2 host adapter for CD-ROM connectivity

- AVA 1505 ISA-to-SCSI-2 host adapter
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/ reconnect, synchronous & asychronous data transfer

$55.95

TotalConnect™

16-Bit host adapter for multiple SCSI-2 peripheral connectivity

- AVA 1515 ISA-to-SCSI host adapter with BIOS
- Connect up to 7 SCSI devices
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/ reconnect, synchronous & asychronous data transfer

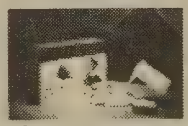
$85.95

SlimSCSI-II™ NEW RELEASE!

NEW!

Instant connection for portables to new peripherals, power & flexibility using the PCMCIA

- APA-1460 SlimSCSI-II host adapter
- Compatible with PCMCIA type II, type III & Toshiba type IV slots
- Fast 2MB/sec data transfer rate
- Convenient detachable 3-foot cable with reversible connector
- Low 0.5 watt power consumption for longer battery life
- Includes software for CD-ROM's, Phot CD's, SCSI hard drives, HP scanners, Magneto-optical, Syquest, Bernoulli, Floptical & SCSI tape drives.

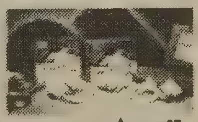


$195.95

MiniSCSI™Plus & EPP Adapters

A fast, easy way to connect SCSI devices to your portable or desktop PC's parallel port

- APA-348 MiniSCSI Plus & APA-358 MiniSCSI EPP
- Simple external plug-in, perfect for notebooks
- Convenient, intergrated 3-foot cable
- Complete software for easy installation and full SCSI peripheral device support
- Simultaneous use of parallel port with 100% transparent pass through
- MiniSCSI EPP model supports up to 1MB/sec. when used with enhanced parallel port.



SlimSCSI™EPP APA-358	$155.95
SlimSCSI™Plus APA-348	$119.95

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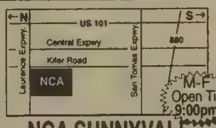

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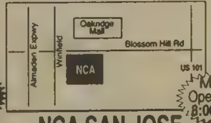

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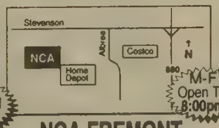

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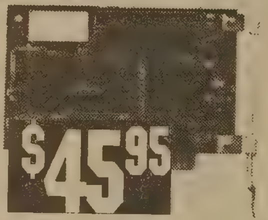
CONTROLLERS

GSI Enhanced IDE Accelerator Boards

GSI Model 11

8-Bit Four-Floppy & QIC-80 Tape Accelerator Board

- High-speed 1MB/sec. floppy interface (up to four floppy drives)
- Doubles the speed of 250MB (QIC-80) tape drives
- Fully supports 2.88MB floppy disk drives
- Supports "Media-Sensing" compatibilites of 2.88MB floppies
- Co-resides with other disk controller boards
- Perfect floppy or tape upgrade board



$\$45^{95}$

GSI Model 18

16- Primary or Secondary IDE Accelerator Board

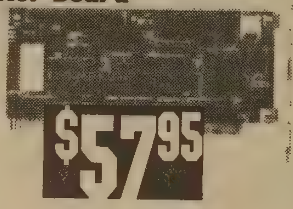
- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports two IDE drives
- Increases IDE hard drive data transfer rates up to 80%!
- Supports new high-capacity IDE hard drives
- Compatible with Windows, Novell NetWare, DOS & OS/2
- Tested and recommended by Micropolis, Fujitsu, Maxtor, Seagate, Western Digital, Quantum and Conner

$\$37^{95}$

GSI Model 21

16-Bit IDE, Floppy & QIC-80 Tape Accelerator Board

- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to two IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- High speed 1MB/sec. floppy interface(up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Fully supports 2.88MB floppy disk drives
- Compatible with Windows, Novell NetWare, DOS & OS/2

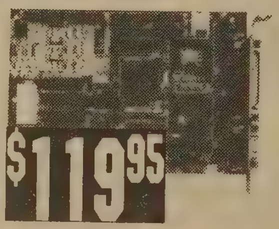


$\$57^{95}$

GSI Model 32

16-Bit Multi-Port IDE, Floppy, Tape, & I/O Accelerator Board

- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to two IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- High speed 1MB/sec. floppy interface(up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Dual 16550 UART serial ports & one bi-directional parallel port
- Compatible with Windows, Novell NetWare, DOS & OS/2

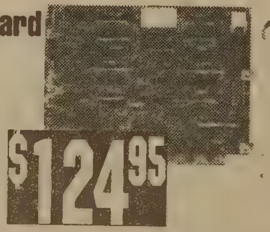


$\$119^{95}$

GSI Model 4C

16-Bit Four-Channel, Eight-IDE Accelerator Board

- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to eight IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- No drivers needed
- Perfect for Novell mirroring or duplexing
- Compatible with Windows, Novell NetWare, DOS & OS/2



$\$124^{95}$

BUSLOGIC

Bus Master SCSI Accelerator Host Adapters

- Fast SCSI-2 data transfers of up to 10MB/second
- Fast & Wide SCSI-2 data transfers of up to 20MB/second
- Support for up to 7 or 15 (Wide) SCSI devices and dual floppy (not supported on PCI)
- Compatible with all major operating systems & SCSI peripherals
- Simple to install & configure using the AutoSCSI utility
- Includes award-winning CorelSCSI for CD-ROM

KT-545C	ISA	$\$208^{95}$
KT-445C	VESA	$\$195^{95}$
KT-747C	EISA	$\$298^{95}$
KT757C	Wide EISA	$\$348^{95}$
KT-946C	PCI	$\$254^{95}$
KT-956C	Wide PCI	$\$307^{95}$

IDE Disk Accelerators Outperform All Enhanced IDE Controllers

- Reduce average disk access time to as low as 0.3ms
- AutoIDE utility for ease of installation & configuration
- Cache expandability from 512KB to 16MB
- Disk mirroring support for 100% disk fault tolerance
- Attach up to 4 IDE drives, up to 4GB each
- Green Mode reduces power consumption

KT-510A	ISA	$\$89^{95}$
KT-410A	VESA	$\$119^{95}$
KT910A	PCI	$\$165^{95}$

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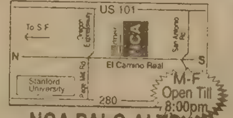

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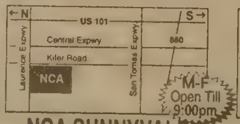

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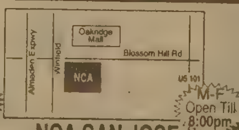

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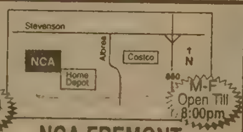

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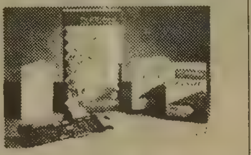
CONTROLLER CARDS

SCSI CONTROLLERS

adaptec



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
AHA-1460	Slim SCSI PCMCIA SCSI Card	$195.95
1505	TOTAL CD 16-BIT SCSI-II	$55.95
1515	Total Connect ISA to SCSI host adapter w/ BIOS	$85.95
1522	16-BIT 7HD/2FD KIT	$135.95
1542CP	BUS MASTER COMPLETE KIT	$235.95
1640	MICROCHANNEL FOR PS/2, 7HD	$299.95
2742/W	Fast Wide SCSI EISA	$347.95/$375.95
2825VL	TOTAL ADVANTAGE VL	$155.95
2842A	Fast SCSI-II VESA	$231.95
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$249.95
AHA-2940W	PCI FAST-WIDE SCSI	$304.95
APA-348	SlimSCSI PLUS	$119.95
APA-358	SlimSCSI EPP	$155.95
AVA-4510	Card Park Dual Slot ISA to PCMCIA adapter	$177.95
3940	Twin Channel PCI	$405.95
3940W	Twin Channel PCI wide	$474.95
3985	PCI RAID Adapter w/ 3RISC Processors	$709.95

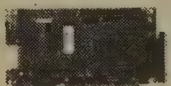
SEE PAGE 11 FOR NEW ADAPTEC PRODUCTS!

DTC DATA TECHNOLOGY

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DTC3130B	PCI 32-Bit PCI SCSI Bus Master w/Bios	$119.95
DTC3274VL	SCSI-II Bus Mastering	$179.95

PROMISE TECHNOLOGY,INC.



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-440	VLB SCSI-2 BUS MASTER w/IDE Interface	$184.95

qlogic Corp.

FAST!SCSI EISA FL

Host Adapter Card for the EISA Bus

$199.95

- Patented 400 Series high-speed SCSI processor
- CorelSCSI for CD-ROM & HDD included FREE
- Uses a single 32-bit EISA slot
- Comprehensive software support
- 50-Pin internal SCSI cable with support for 3 devices provided
- Floppy connector supports 2 floppy drives
- Supports up to 7 SCSI devices

Host Adapter Card for the PCMCIA Bus	$164.95
Host Adapter Card for the VESA Local Bus FL	$189.95
Host Adapter Card for the ISA Bus FL	$115.95

FAST!SCSI PCI Basic

Host Adapter Card for the PCI Bus

$119.95

- High speed, single-chip SCSI processor
- Uses a single PCI slot
- SCAM level 2 upgrade
- Supports Fast SCSI-2 (10MB/sec.)
- Comprehensive software support
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high density external connector
- 50-pin internal connector including ribbon cable with support for 3 internal devices
- Supports up to 7 SCSI devices

FAST!SCSI IQ PCI Wide

Host Adapter Card for the PCI Bus

$295.95

- Bus Master
- Uses a single PCI slot
- Fast(10MB/sec.) & Wide(20MB/sec)SCSI cabability
- High speed ISP1020 12 MIPS RISC SCSI processor
- Supports up to 15 SCSI devices

FAST!SCSI IQ PCI-10

Host Adapter Card for the PCIA Bus

$205.95

- 12 MIPS RISC SCSI processor
- Over 4000 512-byte block I/Os p.s.
- Uses a single PCI slot
- Supports Fast SCSI-2 (10MB/sec.)
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high-density internal connector, including ribbon cable with support for 3 internal devices

BUSLOGIC

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT545C	ISA Bus Master Fast SCSI Adapter Kit	$208.95
KT445C	Bus Master Fast SCSI Kit for VL Bus	$195.95
KT742A	EISA Bus Master SCSI-II Adapter Kit	$278.95
KT747C	EISA Bus Master Fast SCSI	$298.95
KT757C	FASTWIDE SCSI Card	$348.95
KT946C	Bus Master Fast SCSI for PCI Local Bus	$254.95
KT956C	WIDE PCI Card	$307.95

IDE CONTROLLERS

ATronics International Inc. *We Deliver Advanced Technology*

IDE FAST-ATA

MODEL	DESCRIPTION	PRICE
DC-75	All in one VESA Enhanced IDE + Enhanced I/O	$39.95
DC-95G	VESA Enhanced IDE with I/O	$29.95

IDE CONTROLLERS

NCA'S STANDARD IDE

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
211	2HD/2FD W/16550, 1PAR, 1GAME	$25.95
223EH	2HD/2FD for VESA LOCAL BUS 16550 I/O	$44.95

BUSLOGIC

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT510A	IDE Cache Contoller For PC/AT Sys.	$89.95
KT410A	IDE Cache Controller for VLB	$119.95
KT910A	IDE PCI Cache Controller	$165.95

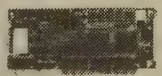
PROMISE TECHNOLOGY,INC.

IDE CACHING CONTROLLERS

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-200	ISA IDE 4HD/2FD 2.88MB Floppy support.	$87.95
DC-420VLB	VESA IDE 512K Cache	$95.95
DC-4030-VL-2	VESA IDE 2.88MB support 4HD/2FD	$105.95
DC-200M	ISA IDE 512K Cache 4HD/2FD 2.88 Support	$91.95
DC2032	ISA Caching controller	$123.95
DC-2300+	E-IDE w/16550 IO	$59.95
EIDE *MAX*-16-bit	enhanced IDE controller	$28.95

gsi™ Intelligent Accelerator/IDE Boards



IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
GSI 11	8-Bit 4FD/Tape Accelerator Board	$45.95
GSI 18	16-Bit 2 IDE Devices	$37.95
GSI 21	16-Bit 2FD/Tape Backup	$57.95
GSI 32	16-Bit Multi Port IDE/Tape & I/O	$119.95
GSI 4C	16-Bit 8-IDE Devices	$124.95

DTC DATA TECHNOLOGY

IDE CONTROLLERS

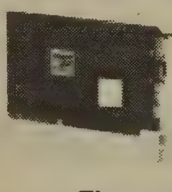
MODEL	DESCRIPTION	PRICE
DTC 2278d	VESA Multi I/O 2s/1p/1g Enhanced IDE	$24.95
DTC 2278E	VLB Enhaced IDE, Enhanced Parallel: Serial Port	$38.95
DTC 2278EB	VLB Enhaced IDE, Enhanced Parallel: Serial Port w/Bios	$42.95
DTC 2278D+	Enhanced IDE Multi-Functional I/O	$33.95

QUICKPATH

PORT-FOLIO 16550

13-Port Super I/O Card

4 INTEGRATED NS16550 HIGH SPEED UARTs



- 2 IDE HD
- 4 Floppy
- 2 Parallel
- 4 Serial
- 1 Game

$119.95

Flexport 42-6 Port.........$99.95

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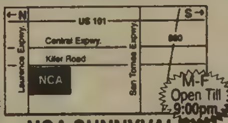

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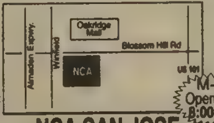

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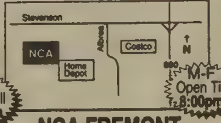

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MEDIA VISION

MULTIMEDIA KITS

PRO DELUXE-MV 5000 Triple-speed 195ms SCSI-II CD-ROM Player, Premium 16-bit Sound Card, Speakers, 15 CD-ROM Titles	$\$665^{95}$
PREMIUM DELUXE-MV 4100 Portable CD-SCSI-II, Premium 16-bit Sound Card, Microphone, 15 CD-ROM Titles	$\$498^{95}$
SUPER DELUXE-MV 3100 16-bit Sound Card, CD-ROM Drive, Speakers, 15 CD-ROM Titles	$\$339^{95}$
FAMILY DELUXE-MV 2100 Double-speed super Fast 250ms CD-ROM Drive, 16-bit Sound Card, Speakers, 9 CD-ROM Titles	$\$284^{95}$
MV 2200 Quad-speed 200ms CD-ROM Drive,16-bit Sound Card, WaveTable upgradable, Speakers, 8 CD-ROM Titles, 50 Shareware Games	$\$284^{95}$
FAMILY DELUXE-MV 1100 Double-speed fast 250ms CD-ROM Drive, 16-bit Sound Card. Speakers, 4 CD-ROM Titles	$\$215^{95}$

SOUND CARDS

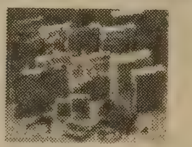
PRO SONIC-16-bit Stereo & 8-bit Stereo Recording & Playback from 4 to 44.1kHz & SCSI Interface	$\$69^{95}$
DELUXE SOUND CARD-16-bit Sound Card, WaveTable upgradable CD-ROM interface & much more!	$\$99^{95}$
PREMIUM 3-D SOUND CARD- Award Winning 16-bit SRS 3-D Stereo Sound, **MCD** & much more!	$\$138^{95}$
PREMIUM 3-D SOUND CARD- Award Winning 16-bit SRS 3-D Stereo Sound, SCSI Interface	$\$145^{95}$
PRO 3-D SOUND CARD-Award Winning 16-bit SRS 3-D Stereo Sound, SCSI Interface & much more!	$\$265^{95}$

DIAMOND MULTIMEDIA

QUAD-SPEED MULTIMEDIA KITS

Diamond 4000 Upgrade Kit

- Internal Quad-speed CD-ROM Drive
- 16-Bit Wavetable Upgradable Sound Card
- Premium Stereo Speakers
- Includes 11 Hot CD Titles
- Quick start video for easy installation



$\$294^{95}$

Diamond 500 Quad Speed Upgrade Kit-Includes Compton's CD Title	$\$229^{95}$
Diamond 2000 Quad-Speed Upgrade Kit-Includes 7 Hot CD Titles	$\$372^{95}$
Diamond 3000 Quad-Speed Upgrade Kit-Includes 6 Educational CD Titles	$\$325^{95}$
Diamond 5000 Quad-Speed Upgrade Kit-Includes 30 Hot CD Titles	$\$399^{95}$
Diamond 6000 Quad-Speed Upgrade Kit for Small Office/Home Office	$\$329^{95}$

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Presenting the Complete PC Multimedia Solution

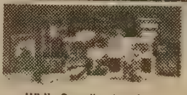
Sound BLASTER

MULTIMEDIA KITS

EDUTAINMENT CD 16™ Multimedia Upgrade Kit

- Sound Blaster 16-Bit Stereo Card
- Double-Speed Internal Drive
- CD-ROM Software Bundle Includes:

Software Toolworks Multimedia Encyclopedia, Lucasfilm Games, Simulations Sherlock Holmes Detective



While Supplies Last!

$\$389^{95}$

Advanced Multimedia Upgrade Kits

GAME BLASTER 16 CD™ Double-speed internal Drive, Game Blaster Sound Card, High Performance Speakers & Joysticks, Top Games Bundled CD-ROM Titles	While Supplies Last!	$\$365^{95}$
DISCOVERY 16 CD™ Sound Blaster 16-Bit Stereo Card, Double-Speed Internal Drive, Stereo Speakers, Top Quality CD-ROM Software	While Supplies Last!	$\$235^{95}$

SOUND CARDS

Sound Blaster Basic Value Edition		$\$57^{95}$
Sound Blaster Pro Value Edition	While Supplies Last!	$\$64^{95}$
Sound Blaster 16 Basic Value Edition		$\$94^{95}$
Sound Blaster 16 MultiCD/with ASP	While Supplies Last!	$\$129^{95}/\$175^{95}$
Sound Blaster 16 SCSI-II/with ASP		$\$175^{95}/\$189^{95}$
Sound Blaster AWE32/with Advanced Waveffects		$\$275^{95}$

Advanced GRAVIS

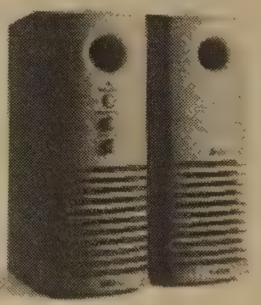
SOUND CARDS

Ultrasound MAX 16-Bit Wavetable, 16 stereo channels, exp. to 192 general MIDI instrument set, Dedicated Digital Sound Processor, Built in Stereo	$\$169^{95}$

YAMAHA Active Servo Technolog

YAMAHA POWERED MONITOR SPEAKERS

YST-M5

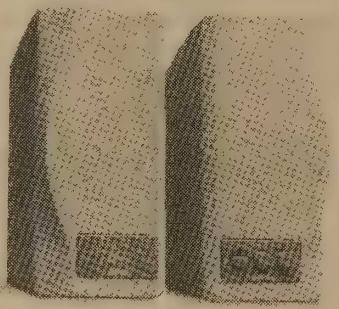


- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

$\$28^{95}$*

*After Instant In-Store Rebate After Sept. 1, 95

YST-M10



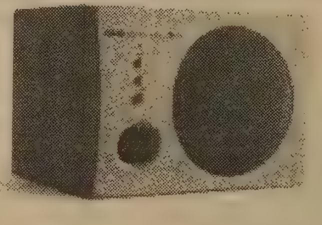
- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

$\$63^{00}$*

*After Sept. 1, 1995

YAMAHA POWERED SUBWOOFER

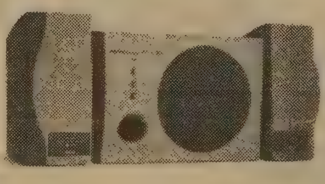
YST-MSW10



- 25 Watts
- Video shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-like sound
- 35Hz-250KHz ±10db

$\$169^{95}$

YST-SS1010



YST-M10 SPEAKERS:
- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

YST-MSW10 SUBWOOFER:
- 25 Watts
- Video Shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-Like sound
- 35Hz-250KHz ± 10dB

$\$239^{95}$

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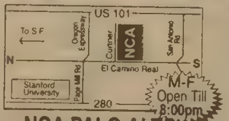

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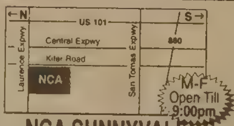

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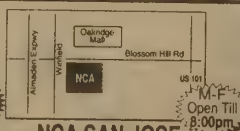

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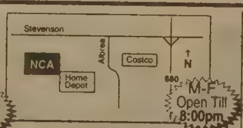

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CHINON CD-545S

SCSI-II Quad-Speed CD-ROM Drive

230ms average access time
600Kb/sec
Photo CD
128K RAM buffer
MPC-2 compliant
Caddyless

NEW!

$299.95

External for PC or MAC..........$409.95

TOSHIBA

5301B
- Caddyless
- SCSI-II Fast Quad-Speed CD-ROM
- 150ms/600kb/sec
- Multi-spin/Multi-speed

$279.95

External for PC or MAC..........$389.95

5302B
- Caddyless
- EIDE Fast Quad-Speed CD-ROM
- 150ms/600kb/sec
- Multi-spin/Multi-speed
- 256K buffer

NEW!

$169.95

3601B
- Caddyless
- SCSI -II Fast Quad-Speed CD-ROM
- 150ms/600kb/sec
- Multi-spin/Multi-speed
- 256K cache

$299.95

External for PC or MAC..........$409.95

MITSUMI 4X FX400B

uad-Speed CD-ROM Drive

ultisession Enhanced IDE
oftware
addyless
00MB CD capacity
an co-exist w/second AT CD-ROM

IDE

$155.95

TEAC

Super Quad 4X
D-ROM Drive w/ Interface
- 600Kb/sec. transfer rate
- 195ms access time
- Sound Blaster compatible INCLUDES:
- CD-ROM drive
- Installation software
- TEAC AT interface board
- Mounting hardware
- Installation cables

CD55A

$169.95

Super Quad 4X Combo
Quad-Speed CD-ROM & 3.5" FloppyDrive In a single bay
- 3.5" floppy drive
- 600Kb/sec. transfer rate
- 195ms access time
- Sound Blaster compatible INCLUDES:
- CD-ROM drive
- 3.5" floppy drive
- Installation software
- TEAC AT interface board
- Mounting hardware
- Installation cables

CF506A

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Panasonic 200M

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- Caddyless

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- Portable double speed ATAPi CD-ROM drive - use anywhere
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- Includes cables, driver, and installation disk

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Double-Speed CD ROM Reader
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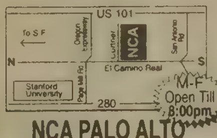

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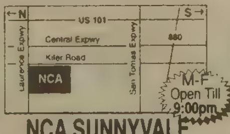

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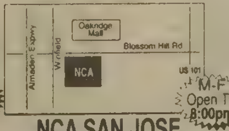

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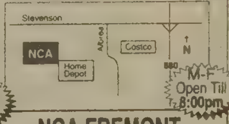

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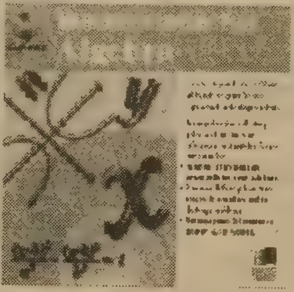

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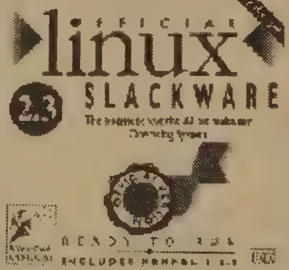
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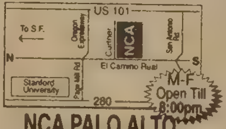
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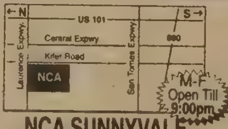
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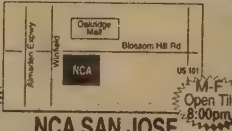
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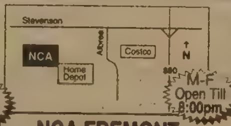
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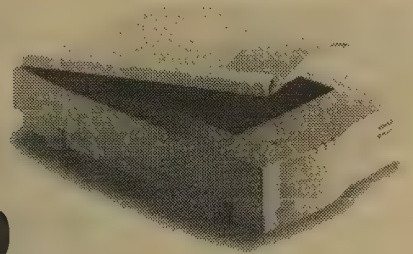

T-630

Your Affordable High Performance Color Scanner

- The Vista-T630 is the fastest 3 pass scanner on the market today
- Full spectrum cold-cathode lamp for longer life
- 4800 dpi maximum resolution with UltraView technology
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•ImageFolioLE	•Color-IT
•Maxsoft's Wordlinx 2.0	•Wordlinx 2.0
•Corel Professional Photos	•Corel Professional Photos
•Microsoft Home CD Sampler	•KPT Power Photos CD Sampler

$489⁹⁵

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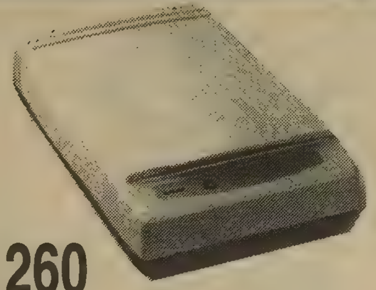
The New Low-Cost, High Speed Single-Pass Scanner

- 4800dpi high resolution
- Single pass with single cold cathode lamp technology
- De-screening, auto-sensity adjustment, filtering function
- Choice of 2 exciting software bundles
- TWAIN compliant
- Built in SCSI-II interface w/256K bus caching buffer
- Micro-stepping optical transmission for faster speed
- MagicMatch color management system
- Optional UTA

PC Software	MAC Software
•Adobe Photoshop LE	•Adobe Photoshop LE
•Omni Page Direct	•Omni Page Direct
•SCSI card/cable	•SCSI cable & terminator
•TWAIN	•Power cord

$665⁹⁵



UC-1260

High Resolution Color Scanner

- Legal size scanning area
- 9600 dpi with Ultra-View Technology
- De-screening, auto-density adjustment, filtering function
- Choice of 2 exciting software bundles
- Batch & multiple scan capabilities
- TWAIN compliant
- Built in SCSI-II interface w/2MB bus caching buffer
- Optional ADF and UTA

PC Software	MAC Software
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•Ultra View-interpolation software 9600dpi	•Ultra View-interploation software 9600dpi
•Kai's Power Tools SE	•Kai's Power Tools SE
•SCSI card/cable	•SCSI cable
•TWAIN	•TWAIN

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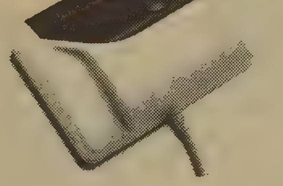

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- 800dpi
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- Image editing
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- PageOffice is the only product available that links the piles of paper on your desk to the power of your PC.

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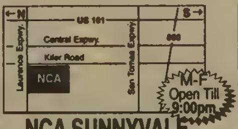

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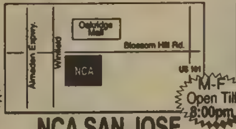

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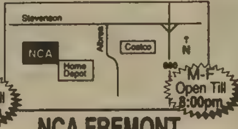

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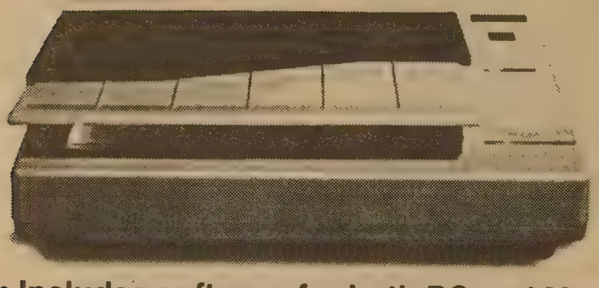

- **SCSI-II/PC or Mac**
- A6000C-Viewstation
- 8.5"x14" scanning area
- 2400x2400 dpi through software interpolation
- Intelligent LCD panel
- Long lasting cold cathode lamp
- 16.8 million colors / 256 grayscale levels

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- **Includes software for both PC and Mac**

Handheld True Color Scanner Kit for Windows

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INCLUDES

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-ViewScan™ Color 16M A2000C
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Handheld Grayscale Scanner Kit for Windows

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INCLUDES

•SCANNER
ViewScan™ /gray 256
Missing Line Compensation
TWAIN Compatible

•SOFTWARE
-WalkScan™ Boardless Scanner Adaptor for Portables and Desktop PCs
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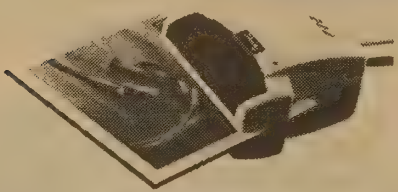
-PhotoStacker Plus - JPEG Image Processing Software with AutoStitch

Handheld Grayscale Scanner



- ViewScan®/256S
- 800dpi
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- GO-CR - OCR Software
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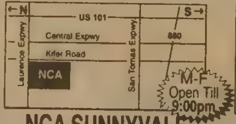
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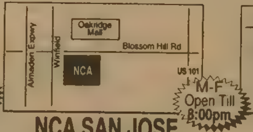
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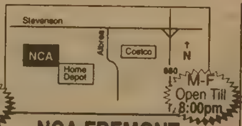
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miroVIDEO DC1

MANUFACTURED IN GERMANY!

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iro's DC1 tv Video Capture Board Delivers Full Screen 640X480 Full Motion 30fps Video utput And Non Linear Audio & Video Editing To The Personal Computer At A Remarkable Price!

Hardware Highlights:
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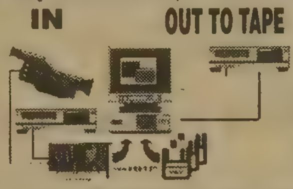
- Compatible with all graphics boards



State-Of-The-Art Features:
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SPREAD YOUR WINDOWS WORKSPACE ACROSS TWO MONITORS. HIGH QUALITY IMAGES AND TOP RESOLUTIONS. PERFECT FOR CAD, DTP & FINANCIAL APPLICATIONS.

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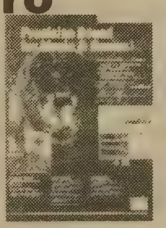

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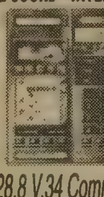

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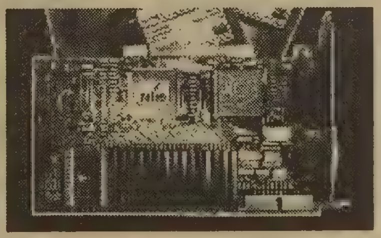

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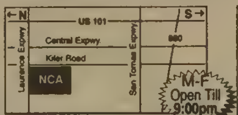

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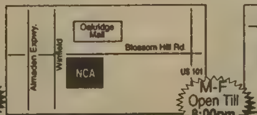

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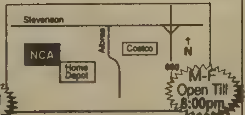

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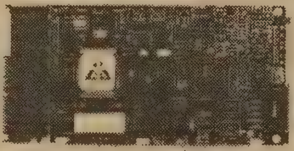

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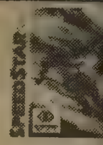

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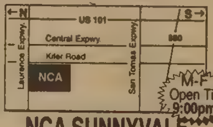
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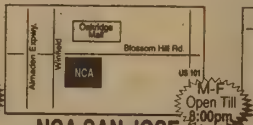
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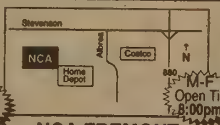
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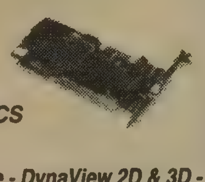

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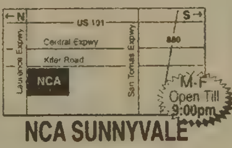

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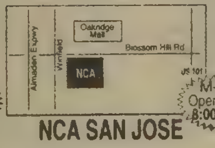

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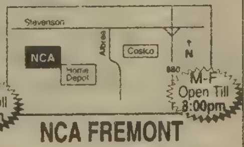

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- Ultra-fast 64-bit performance
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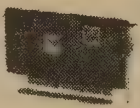
- Reduced eye strain with flicker free refresh rates up to 100Hz
- Supports a wide variety of DOS applications, Windows, and OS/2 Warp
- Enhanced CAD drivers and popular 3d application support
- Reduces energy consumption and adds monitor life (VESA DPMS)



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Value Packed 64-bit Windows Accelerator

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- Enhanced Windows drivers and FlexDesk utilities
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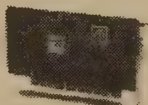
- Reduced eye strain with flicker free refresh rates up to 75Hz
- Supports a wide variety of DOS applications, Windows, and OS/2 Warp
- Reduces energy consumption and adds monitor life (VESA DPMS)



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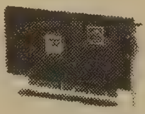
Win Turbo

Fast 64-bit VRAM Graphics Accelerator

- *mach64* 64-bit graphics accelerator chip
- Up to 16.7 million colors
- Detailed high resolution up to 1280x1024
- Switchless design
- Supports accelerated true color (24-bit) graphics
- Enhanced Windows drivers and FlexDesk utilities
- Windows instant mode switching with WinSwitch
- DeskScan provides an off screen Windows virtual workspace
- Reduced eye strain with flicker free refresh rates up to 100Hz

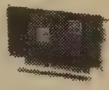


2MB VRAM *PCI, ISA,VLB* **$275 95**

Video It!

Video Capture / Editing Card

- Simple affordable way to add full motion video to your PC
- A one-step real-time video capture and compression board
- "Instant" capture/compress at: 160x120@30fps, 240x180@24fps, and 320x240@15fps
- Live video-in-a-window (speed dependant on system bus & CPU)
- Easy to install and works with any graphics accelerator
- Video For Windows compatible
- Includes video compression software for Windows



ISA,VLB **$244 95**

Xclaim GA NEW!

Macintosh PCI Bus True Color Graphics Accelerator

- Display true color up to 1152x870
- View resolutions up to 1600x1200
- Dual connectors: Apple DB15 or VGA - All Apple and VGA style monitors are supported
- ATI control panel features user defined hot keys with pop-up menus - allowing instant changes to all available resolutions and color depths
- Extended desktop feature permits you to pan across large images and documents on a desktop larger than your display

2MB VRAM *Macintosh PCI* **$274 95**

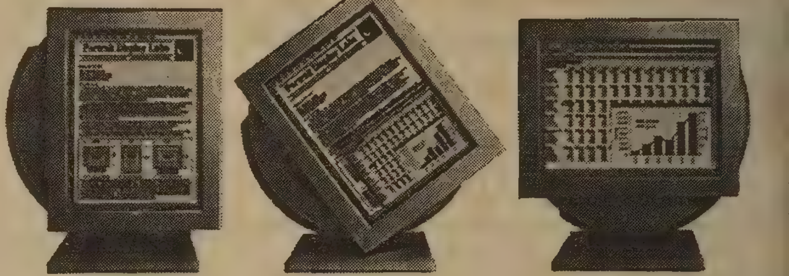
4MB VRAM *Macintosh PCI* **$494 95**

Portrait/1700™

NEW!

Portrait

Display Labs



17" Color SVGA Monitor

The Most Versatile 17" Display Available!

- Pivots between portrait and landscape modes
- Allows full page document views-big 9.3" x 12.4" active display area
- .26 mm dot pitch, 76 Hz. refresh rate for crisp, flicker free images
- Up to 16 million colors, maximum 1280x1024 resolution
- Flat square CRT design
- Tilt & swivel base
- Energy Star and MPR II compliant
- Includes *MacPortrait*™ & *WinPortrait*™ video driver software and necessary cables

Pivot without closing applications!

For Mac & PC

$995 95

Three Year Limited Warranty

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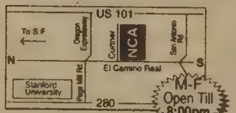

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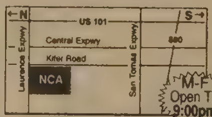

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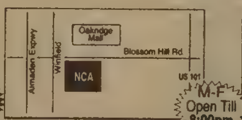

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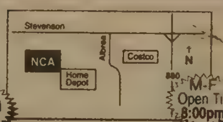

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ViewSonic®
State of the Art

ViewSonic-15GA
•15" RGB color monitor w/built in stereo multimedia speakers
•1280X1024
•Non-Interlaced
•TCO compliant
•.27dpi

\$518^{95}

ViewSonic-V15 1024 x 768 .28, 76Hz .... \$422^{95}
iewSonic-15ES 1024 x 768 .28 .... \$364^{95}
iewSonic-15GS 1280 x 1024 .27, TCO, OVC .... \$437^{95}

ViewSonic-17GA
•17" RGB color monitor built in multimedia stereo speakers
•1280x1024 .27dpi
•Non-Interlaced
•Flat Screen

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iewSonic-17 1600x1024, 50-160Hz .... \$858^{95}
iewSonic-17GS 1280x1024, .27, TCO, 50-160Hz .... \$785^{95}

ViewSonic-20PS
•20" RGB Color Monitor
•1600x1280, .28dpi
•Non-Interlaced
•Dual Page Display

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iewSonic-20G 1600x1280, digital controls, DQ-DAF Gun .... \$1318^{95}

ViewSonic-21PS
•21" Color Monitor
•1600X1280
•.25dpi
•Non-Interlaced

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HITACHI®

SuperScan™Pro15s
• 15" SVGA, Non-interlaced
• 1280x1024, .28dpi
• Flat Screen
• CM1587

\$385^{95}

SuperScan™CM1711
• 17" SVGA Non-Interlaced
• 1600x1200, .26dpi
• Flat Screen
• 3 year warranty

\$889^{95}

SuperScan™ Pro 20
•20" SVGA Non-Interlaced
•1600x1280,
•Flat Screen
•CM2096

\$1199^{95}

CM2198-514: 21" SVGA (NI) 1600X1280, .28dpi .... \$1779^{95}
CM2198-513: 21" 1600x1280 76Hz .... \$1979^{95}

NOKIA
Engineered in Europe for the World
Workstation & CAD Quality Monitors

- Autosync
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- Full Screen Power Save
- MicroEmission

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447X 17" Non-Int. 1600x1280, 110Hz, .25dpi .... \$975^{95}
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HIGH QUALITY!

14" SVGA MONITOR
•Non-Interlaced
•.28dpi
•1024x768
•Energy Star Compliant

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15" SVGA MONITOR
•Non-Interlaced
•.28dpi
•1280x1024
•Energy Star Compliant

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EDGE TO EDGE DISPLAY!

GREEN MONITORS!

iiyama VISIONMASTER

MF-8617 17", .26dpi, Digital Control, Energy Star Compliant \$769^{95}

MiTAC
L1764PD

Affordable Quality Monitors

17" SVGA
•1600x1280
•.26dpi
•Non-interlaced
•"The Green Monitor"
•Low Radiation

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NANAO®

F2-15 15" .28dpi, 1280x1024 66Hz TCO .... \$565^{95}
F2-17 17" .28dpi, 1280x1024 66Hz TCO .... \$915^{95}
F2-17ex 17" .26dpi 1600x1200 66Hz TCO .... \$1015^{95}
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DIGITAL CONTROLS

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MXP17F 17" Non-Int. 1600x1280, .26dpi .... \$898^{95}
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NEC
High Quality Multisync Color Monitors For PC or Mac

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VALUE SERIES
•14", .28mm
•1024x768, 70Hz refresh
•3 yr. warranty
•Energy Star

\$339^{95}

XV15
VALUE SERIES
•15", .28mm
•1280x1024, 60Hz refresh
•Non-Interlaced
•Flat screen

\$458^{95}

XV17
VALUE SERIES
•17", .28mm
•1280X1024
•Up to 60Hz refresh

\$805^{95}

XE15
ENTERPRISE SERIES
•15", .28mm
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•XGA-2 Compatible
•Opticlear, digital controls

\$555^{95}

XE17
ENTERPRISE SERIES
•17", .28mm
•1024x768, 76Hz refresh
•DPI on-the-fly
•Opticlear, digital controls

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XE21
ENTERPRISE SERIES
•21", .28mm
•1280x1024
•Up to 60Hz refresh
•Digital controls

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XP15
PROFESSIONAL SERIES
•15", .28mm
•1024X768
•76Hz refresh
•Opticlear
•Access bus technology

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XP17
PROFESSIONAL SERIES
•17", .28mm
•1280x1024
•Opticlear
•Up to 76Hz refresh
•Access bus technology

\$1109^{95}

XP21
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•21", .28mm
•1600X1200
•Opticlear
•Up to 70Hz refresh
•Access bus technology

\$2299^{95}

SONY

1425CPD
•14" Trinitron Color Monitor
•.25dpi, MPR-II
•50-90Hz
•Energy Star

\$349^{95}

CPD-15SF
•15" Color Monitor
•1280X1024, .25dpi
•Non-Interlaced

\$497^{95}

GDM-17SE1
•17" Color Monitor
•1280X1024, .25dpi
•Non-Interlaced

\$1094^{95}

CPD-17SF
•17" Color Monitor
•Max. Res. 1280x1024, .25dpi
•Non-Interlaced

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GDM20SE
•20" Color Monitor
•State Of The Art
•1600x1200
•.30dpi
•Non-Interlaced

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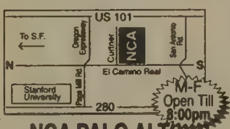

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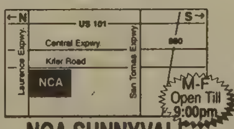

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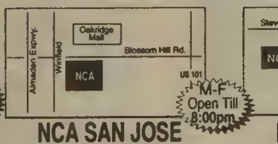

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Sportster 28.8 V.34 INTERNAL/EXTERNAL	$\$219^{95}$/$\$235^{95}$
Courier 28.8 V.34 INTERNAL/EXTERNAL	$\$389^{95}$/$\$439^{95}$
28.8 V.34 PCMCIA Fax/Modem w/Data View	$\$345^{95}$ NEW!
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Megahertz™

Linking Your Worlds

14,400 PCMCIA FAX MODEM

- 14.4bps. V.42/V.42bis
- Auto Installation
- Hot Insertion
- Cellular Compatiblity
- Includes XJACK,a retractable RJ11 connector that pops out to hook into a standard phone cord
- Fax Software Included

INCLUDES XJACK

NEW!

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Supra Corporation™

SupraFAXModem

14,400 bps Fax, 14,400 bps Data/V.42bis / MNP5
57,600 bps throughput/ Class 1 Fax, Caller ID

UNLOCK THE WORLD OF DESKTOP COMMUNICATIONS™

EXPRESS

14.4 Plus Internal

14.4 Fax/Modem for PC

Software Included:
COMit™ (Windows)
FaxTalk® (Windows)
CompuServe® Information Manager

PLUG & PLAY

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Software Included:
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WinFax Lite™ (Windows), FaxTalk® (DOS)
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28.8 Data 14.4 Fax for PC

Software Included:
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External 28.8 for PC .... $\$169^{95}$

14.4 Ext. MAC

14.4 Fax/Modem for MAC

- Top-Rated Data/Fax Software.
- Easy to Install, Easy to Use.
- Five Year Warranty
- Cables and Manual

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28.8 Ext. MAC V.34

The Fastest Modem for the MAC

28.8 Data/14.4FaxModem for MAC

- Software Included:
  Microphone LT, FAXcilitate™
  CompuServe Information Manager™
- Cables and Manual.

NEW!

$\$219^{95}$

14.4PB Int. MAC

14.4 Fax/Modem for PowerBooks

- 14,400bps FAX/DATA
- V.42bis/MNP 5 • 57,600 bps Max Throuput
- Caller ID, SilentAnswer™
- Works in PowerBook Models 100-180
- Software Includes:
  °Microphone™ LT
  °FAXstf™, °Compuserve
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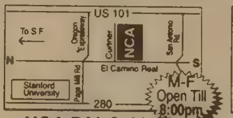

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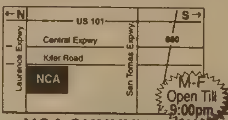

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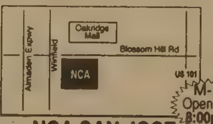

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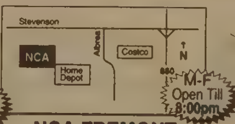

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FAX / MODEMS

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ISDN Terminal Adapter

Windows '95 Ready

Includes Built-In NTI!

- More than twice as fast as the fastest modem
- Access all Internet services at super speeds: over 70,000 bits per second every time
- Acts like a modem, looks like a modem, sets up as easily as a modem...but connects at ISDN speeds
- Simultaneous voice and data on a single ISDN line
- Download digital video clips, music, speeches, high resolution color photographs from the World Wide Web and other Internet services
- Send and receive massive data files fast: desktop publishing documents, spreadsheets, engineering data
- Play interactive games without annoying delays
- Everything you need for ISDN - built in NTI and ISDN line ordering codes
- Works with AT compatible software
- Easy to use and install

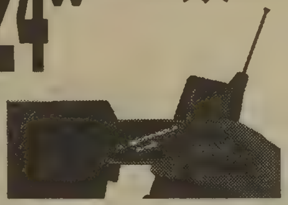
$\$399^{95}$

14.4 PCMCIA Cellular Modem

- PCMCIA release 2.0 and above, Type II compliant
- Credit card size
- High speed fax modem
- Data rates - 14.4 kpbs to 300 bps; V.32bis, V.32, V.22bis, V.22, Bell 103
- Remote configuration
- V.42bis data compression protocol
- Hayes AT command set compatible
- Low power standby modes provide maximum battery life
- Send/receive faxes at 14.4, 12, 9.6, 7.2, 4.8, and 2.4 kbps
- Fully ITU Group III compatible
- Compliant with ITU and Bell standards to communicate with a large installed base of modems
- Allows configuration of unattended remote modems
- Increases throughput to up to 57,000 bps
- Direct connect to Motorola MC² cellular phones manufactured after 6/92

$\$224^{95}$

No Cellular Adapter Required



28.8 Data/Fax Modem

- Powered by Mototola 68356 24-bit data pump with RISC technology
- True ITU V.34 technology
- High speed data modem - 28,000 bps to 300 bps
- ITU V.34, V.32bis, V.22, V.23, V.21; Bell 212, 103
- High speed fax modem with error correction
- Fully ITU Group III compatible; compatible with all Class 1 fax software packages
- ITU V.42/V.42bis and MNP 2-5 error correction and date compression
- Automatic rate adaption - adjusts the speed up or down for line conditions
- Caller ID, password, callback security and help screen functions
- Hayes compatible commands
- RS232 cable included for MAC version
- No more fuzzy faxes with Clear Fax™
- Asyncronous data rates up to 115,200 bps result in savings on line charges
- Error-free data transfer provides optimum throughput and performance
- Maximizes speed and minimizes errors for the most economical and error-free connection possiblae
- Identifies a caller before you answer the phone with a distinctive ring
- Can record who called while you were out
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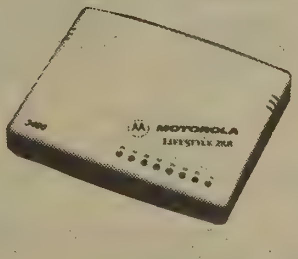
- Online help provides quick command reference with search capability
- Conveneint modem configuration from your keyboard

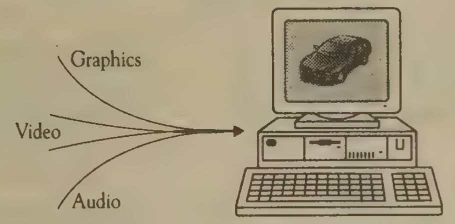


PC INTERNAL	PC EXTERNAL	MAC EXTERNAL
$\$185^{95}$	$\$199^{95}$	$\$214^{95}$

ISDN DIGITAL NETWORK

PACIFIC BELL FASTRAK™ ISDN

Fast and Fun Access to the Internet



Pacific Bell *FasTrak ISDN* allows you to access the Internet ***faster than any modem.*** ISDN gives you graphics in an instant—you no longer have to wait for Web pages to download slowly over an analog modem. You are up to speed with ISDN. See NCA to order your Pacific Bell *ISDN*, or call **1-800-4PB-ISDN.**

Technology ISDN BRI

Product	Monthly	Installation
ISDN Single line ISDN for business includes one metered business line	$24.82 plus usage/ $26.04 if multiple lines	$70.75 for one metered business line[1]
Home ISDN Single line ISDN for home	$24.50 plus usage[2]	$34.75 for one metered residence line[1]

[1] $125 ISDN installation fee waived for a two-year service period.

[2] Usage charged between 8 a.m. – 5 p.m., Monday through Friday.

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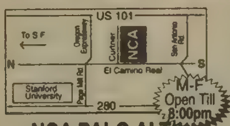

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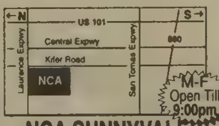

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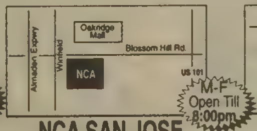

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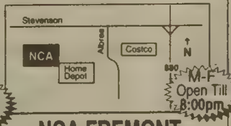

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CELLULAR DIVISION

MOTOROLA

DPC-550

- F09HLD8415
- Lightweight 12.1 ounces
- 75 minute talk time
- 30 number memory
- Automatic redial
- Flip answer & end
- Call timer

$CALL

DPC-950

- F09HLD8495
- Only 8.7 ounces
- 9 Turbo dial locations
- 30 memory locations
- Last number redial
- Battery provides 100 minutes of talk time
- Signal/volume meter

$167*

*Price With Contracted Activation

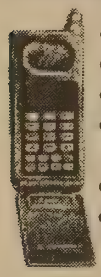
ULTRA LITE

- 76198WNTBA
- 5.9 ounces with battery
- Optional VibraCall alert
- Noise cancelling microphone
- One touch emergency dialing
- Signal strength meter

$245*

*Price With Contracted Activation

MICRO-TAC LITE



- F09HYD8393
- Lightweight
- Optional VibraCall
- One-touch emergency dialing
- Signal strength meter
- Battery/signal meter

$205*

*Price With Contracted Activation

MICRO-TAC ELITE

The Ultimate Cellular Phone!

- 76330WNXBA
- 3.9 ounces!
- Built-in answering machine
- Vibra-call alert
- Headset jack for hands-free operation
- Internal rapid charger
- Battery/signal meter
- 99 slot memory

$706*

*Price With Contracted Activation

UNIDEN

CP 7500

- 7.9 ounces!
- Liquid crystal display
- 99 memory locations
- Alpha numeric entry
- One touch redial
- Timer features
- Signal level meter
- Battery level meter

$149*

*Price With Contracted Activation

Mitsubishi

AH4500

NEW!

- 99 memory locations
- Alpha numeric entry
- 9.1 ounces w/battery
- Hand-held
- Retractable antenna
- 10 secret memory locations
- Seven level call restriction
- Low battery indicator
- Pager mode with time stamp
- Much, much more....-see store for complete details!

$114*

*Price With Contracted Activation

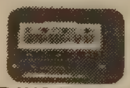
5000

- 99 memory locations
- Alpha numeric entry
- 7.7 ounces w/battery
- Hand-held
- Retractable antenna
- 10 secret memory locations
- Alphabet scan
- 5 last number redial locations w/time stamp
- Seven level call restriction
- Low battery indicator
- Pager mode with time stamp
- Much, much more....-see store for complete details!

$224*

*Price With Contracted Activation

MOTOROLA



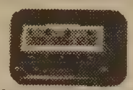
Brand New!

BRAVO EXPRESS

- Small pocket size
- Musical alert
- Bright colored housings
- 12/24 hour timekeeping
- Automatic pager on/off
- Vibrate alert
- Message timestamping
- Message slot number
- Memory storage when off
- Front mount display

$88.95

MOTOROLA



Brand New!

MEMO EXPRESS

- Alpha numeric
- Small pocket size
- Musical alert
- 12/24 hour timekeeping
- Automatic pager on/off
- Message timestamping
- Message slot number
- Memory storage when off
- Front mount display

$115.95

MOTOROLA

Brand New!

BRAVO PLUS

- Small pocket size
- Vibrate alert
- Message timestamping
- Message slot number
- Low battery indicator
- Backlighted display
- Freeze screen

$74.95

NEC

AirTouch Paging

SPORT PAGER

Brand New!

- Small pocket size
- Vibrate alert
- Message timestamping
- Clock
- Low battery indicator
- Duplicate message indicator

$44.95

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Service activation not required. No dealers or resellers. All rates & information subject to change w/out notice. Bay area end users only. *Price includes $25 instant activation rebate with new GTE MobileNet activation on selected rate plans. Some restrictions may apply. All rates and information subject to change without notice. California law prevents us from being able to apply our Low Price Guarante on Cellular phones.

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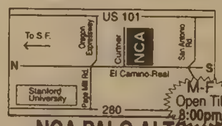

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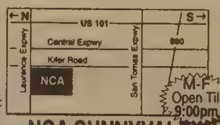

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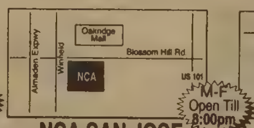

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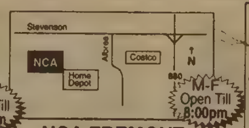

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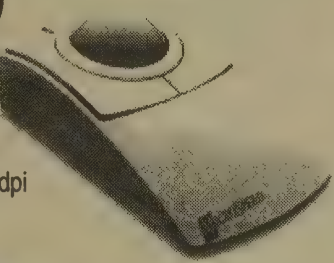
HIGH QUALITY UPGRADES

MICROSPEED



- 100% Microsoft mouse compatible
- Includes PrecisionPointer™ driver software that automatically adjusts resolution from 50 to 1000 dpi for quick movement and precise control.

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NEW!

SERIAL Version $55.95

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3-Button Serial Mouse (250dpi)

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DELUXE MODEL

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MICROSPEED KEYBOARD DELUXE FOR WINDOWS 95™ NEW!

Plug & Play compatible with DOS, Windows™ 3.1, Windows '95™, plus all of the other operating systems. Comes with 3 new Windows '95™ keys, along with mouse support on the Num Lock key as specified by Microsoft™ for Windows '95™ $45.95

KENSINGTON

THINKING MOUSE 4.0

- Custom acceleration-zip your cursor across a big screen or slow it down for small detailed movements
- 4 programmable buttons
- Send keys-allows a series of keystrokes for commands to perform such tasks as printing a document, opening, closing and saving a file
- Pop-up menus allow you to create personalized menus for commands
- Brilliant Cursor Technology
- Shortcuts to enter frequently used Windows or MAC commands
- Rest reminder helps you schedule rest periods
- Application sets creates different sets of commands for different programs
- 5 year warranty

$89.95 **MACINTOSH** Version

$89.95 **BUS** Version

$79.95 **PC** Version

TURBO MOUSE 4.0

MacWorld World Class Award Winner for 6 Years!

- Award-Winning technology outperforms other trackballs and mice
- Superior hardware design for overall comfort and durability
- Introducing Brilliant Cursor and Slow Cursor technology for advanced cursor control
- Seven button functions and cursor keys maximize mouse performance
- Enhanced software enables custom acceleration for accurate cursor movement

$104.95 **MACINTOSH** Version

EXPERT MOUSE 4.0

- First trackball with completely integrated hardware and software for total cursor control
- "Jump" cursor to any spot on the screen with all new Brilliant Cursor technology
- Pixel by pixel cursor control with new Slow Cursor Technology
- Custom acceleration to match the way you work
- Programmable mouse buttons execute hundreds of command combinations
- Large, comfortable ball
- Easy to use click buttons
- Durable stainless steel bearings
- Reliable optical technology

$109.95 **BUS** Version

$94.95 **PC** Version

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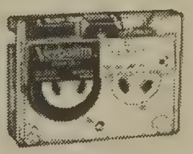

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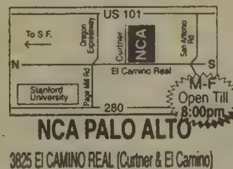

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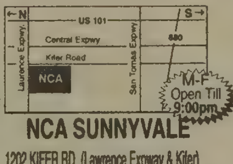

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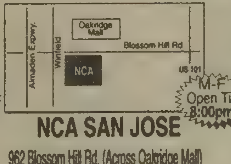

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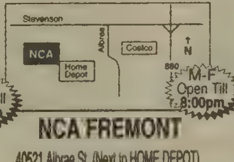

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intel inside
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1MBX9	70ns	9Chip	$Call
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1MBX9	60ns	9Chip	$Call
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4MBX9	70ns	3Chip	$Call
4MBX9	70ns	5Chip	$Call
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KIT INCLUDES:
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2.6MB FlashCard Kit	$259
5.2MB FlashCard Kit	$359
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FlashCard Only, No Software Needed
* Kit Includes FlashCard & Software

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1MBX8	70ns	2Chip	$Call
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2MBX8	80ns	2Chip	$Call
4MBX8	80ns	8Chip	$Call
4MBX8	70ns	8Chip	$Call
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16MBX8	70ns	8Chip	$Call

32-BIT FOR QUADRA 800, CENTRIS, LCIII & POWER PC'S

2MB Module	$Call
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16MB Module	$Call

MAC MEMORY INSTALLATION

Installation $15
(excluding Powerbooks)

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6MB Module (160/180)	$Call
8MB Module (160/180)	$Call
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4MB	$Call
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HP Laser Jet IIP, III, IIID, HP IIIsi

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MYLEX

Ultra Reliable, High Performance MotherBoards

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Green PC, ZIF Socket, SIS Chipset, Award BIOS

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2 Enhanced IDE on Local Bus, 3 PCI slots, 5 ISA Slots 256K Cache, 0MB up to 128MB RAM
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ZIF Socket, SIS Chipset, Award BIOS, GREEN PC

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3 PCI, 5 ISA slots 256K Cache up to 1MB, 0MB up to 128MB RAM uses 72pin Simms
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MGPT: Pentium 75/90/100Mhz PCI — $279
TRITON Chipset, Integrated IDE-I/O
3 PCI, 5 ISA slots 256K Cache up to 1MB, 0MB up to 128MB RAM uses 72pin Simms
ZIF Socket, Award BIOS, GREEN PC

NCA's High Quality
Dual Pentium 75/90/100MHZ Motherboard
- Neptune Chipset
- 256K Cache
- Uses 72-pin SIMMS
- Award BIOS

$669

NCA's High Quality **ZAPPA**
75/90MHz Pentium PCI
- INTEGRATED EIDE-I/O
- TRITON Chipset
- 256K Cache
- 0MB UP TO 128MB
- ZIF Socket
- Uses 72-Pin SIMMS
- 3-PCI Slots

NEW •Lower Price•
CPU Sold seperately
$269

NCA's High Quality **ENDEAVOR**
75/90/100/120MHz Pentium PCI
NEW!
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- 256K Cache WITH Pipeline Burst SRAM Cache
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CPU Sold seperately
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PCI Pentium 75/90/100/120
- 3-PCI SLOTS
- Triton chipset
- 256K CACHE
- 0MB EXP. TO 128MB RAM
- ZIF SOCKET
- USES 72 PIN SIMMS
- INTEGRATED EIDE-I/O

Triton Chipset
CPU Sold seperately
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- USES 72 PIN SIMMS
- AMI BIOS

CPU Sold seperately
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NCA's High Quality PCI
486DX-PCI
- 3 PCI SLOTS
- INTEGRATED EIDE-I/O
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- ZIF SOCKET • BIOTEQ CHIPSET
- USES 72 PIN SIMMS
- AMI BIOS • SUPPORTS DX4

CPU Sold seperately
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NCA's Premier/VLB
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- 0MB EXP. TO 64MB RAM
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- VMC CHIPSET
- USES 30 PIN OR 72 PIN SIMMS
- AMI BIOS
- SUPPORTS DX4

CPU Sold seperately
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NCA's Premier
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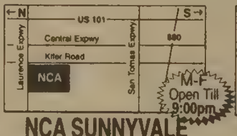

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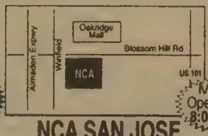

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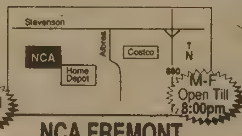

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New Products *continued from page 218...*

n any standard briefcase. Key features include Desktop Printing," "2-/4-Up Printing," and Watermarks," which lets users place words such s "draft" or "confidential" on the background of page. It ships with a color cartridge that offers 60 x 360 dpi color and true black printing on the ame page. The printer also offers sixty-four rueType fonts, matching the font set included vith Apple LaserWriter printers and is compatile with all 68020 or better Macintosh computrs. ($419) Apple Computer, Inc. 1-800-538-9696.

LaserWriter 12/600 PS

The new Apple Color LaserWriter 12/600 PS is a high-quality, RISC-based PostScript laser printer hat provides outstanding results for both color and black-and-white printing and can be used with any combination of Macintosh, Power Macintosh, Mac-compatible, Windows, and UNIX computer systems. It provides 600 x 600 dpi resolution, prints up to twelve pages per minute in monochrome, three pages per minute n color, and one page per minute for color ransparencies. It ships with Apple's Color PhotoGrade technology, Auto Calibration technology, and ColorSync, as well as thirty-nine PostScript fonts and sixty-five TrueType fonts. ($6989; additional black toner cartridges are $119; additional cyan, magenta, and yellow cartridges are $139) Apple Computer, Inc. 1-800-538-9696.

Telecommunications Hardware

Patton Model 1018

The Patton Model 1018 is a miniature (3.55" x 2.1" x .78"), short-range modem that passes asynchronous data plus four control signals: two in-band flow control signals (DTR/DCD) and two channel-independent out-of-band flow control signals (RTS/CTS). This capability makes the Model 1018 suitable for SLIP and PPP applications, as well as other serial applications requiring extra controls. It supports asynchronous data rates to 57.6Kbps and distances of 2.4 miles over two twisted pair cables. Diagnostics include V.54 loopback tests, a built-in V.52 BER test generator, and tristate LED indicators. Communication is protected from transient surges by built-in surge protectors and from ground loops by 1500V RMS isolation transformers. ($325) Patton Electronics Co., 7622 Rickenbacker Dr., Gaithersburg, MD 20879. (301)975-1000.

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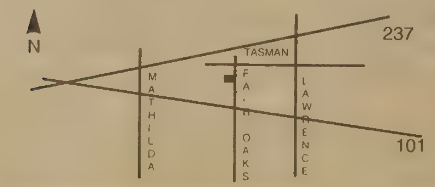

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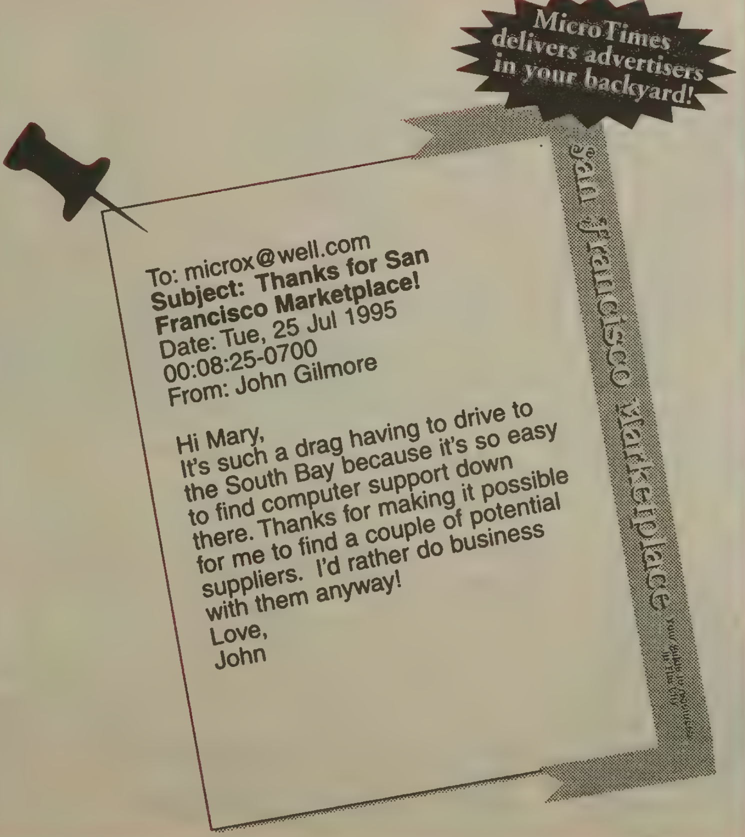
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4000CT				
F1069A	100MHz Intel486DX4™	8MB/520HD	10.4"Active Color	[illegible]
F1159A	100MHz Intel486DX4™	8MB/810HD	10.4"Active Color	[illegible]
5000CTS				
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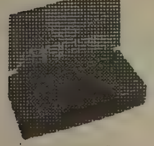

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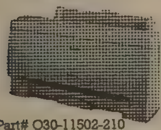

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C2164A	DeskJet 660c	600x300	4	[illegible]
C1676A	DeskJet 1200c	600x300	7	[illegible]
C1686A	DeskJet 1200c/PS	600x300	7	[illegible]
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C2836A	Deskwriter 320 w/feeder	600x300	4	[illegible]
C2153A	Deskwriter 540	600x300	3	[illegible]
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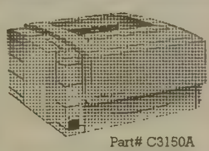

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C3141A	LaserJet 4V	600 dpi	16	[illegible]
C2010A	LaserJet 4Si	600 dpi	17	[illegible]
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C2039A	Laser 4M Plus	600 dpi	12	[illegible]
C3142A	Laser 4MV	600 dpi	16	[illegible]
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51625A	Color Deskjet/Deskwriter 500 Series	Color	[illegible]
51629A	Deskjet/Deskwriter 660	Hi-Cap Black	[illegible]
51649A	Deskjet/Deskwriter 660	Color	[illegible]
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92274A	LaserJet 4L/4P/4MP	2-3K pages	[illegible]
C3903A	LaserJet 5P/5MP	2-3K pages	[illegible]
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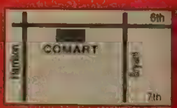

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•PowerBook 540C 12/500 w/Modem	$4135
•PowerMac 6100/66 16/500 w/DOS Card	$2401
•PowerMac 6100/66 8/500	$1456
•PowerMac 6100/66 8/500/CD	$1920
•PowerMac 7100/80 8/700/CD	$2523
•PowerMac 7100/80 16/700/CD	$2931
•PowerMac 8100/100 16/1GB/CD/AV	$3540
•PowerMac 8100/100 16/2GB/CD	$4073

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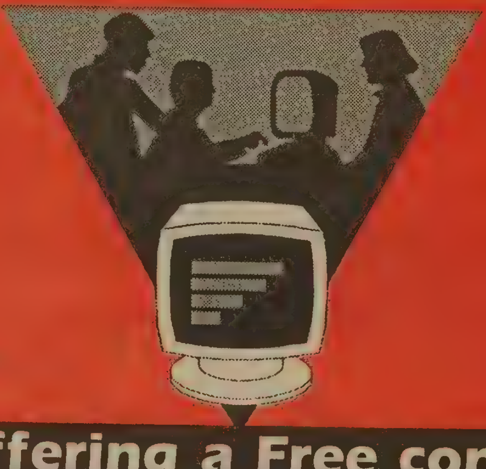

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Audio Plus Sound Card (8 Bit)	$29
Jazz 16 Sound Card (MCD)	$49
Mega Wave 16 Stereo Sound + 32 Voice Wave Table card	$109
Sound Blaster 16 Stereo Sound Card (IDE)	$67
Sound Blaster 16 Sound Card (Panasonic) w/ASP	$79
Sound Blaster AWE 32 Sound Card	$149
Sound Blaster AWE 32 (up to 29MB Memory)	$269
Turtle Beach (Montecarlo) 16 Sound Card	$69
Media Vision 16 Sound Card w/SCSI	**Super Deal** $59
MPEG Video Play Back Display Card	$169
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Multimedia Kits

Panasonic 2x Double Speed Kit $99.99
- Jazz 16 Bit Stereo Sound Card (SB16 Comp)
- Panasonic 2x Double Speed CD ROM Drive (300ms, 300kb/Sec, Multisession)
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- Pair of Magnetic Shielded Speaker

Hitachi 4x Quad Speed Kits $199.99
- ACER 16 Sound Blaster Stereo Sound Card
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- Pair of Magnetic Shielded Speakers

NEC 4x Quad Speed (SCSI) $369.99
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- NEC 4x Quad Speed CD ROM Drive (SCSI) (175ms, 600kb/Sec, Multisession, CD-I)
- Pair of Magnetic Shielded Speakers

Optional :
For Toshiba (5301) SCSI CD ROM Drive . . .Add $15
For Toshiba (3601) SCSI CD ROM Drive . . .Add $55

CD ROM Drives

Panasonic (CR-563) 2x CD ROM Drive (AT BUS)	**Best Deal** $59.99
Teac 55A 4x Speed CD ROM Drive (Panasonic)	$149.99
Toshiba (5302B) 4x CD ROM Drive (IDE)	$159.99
Sanyo (CRD 254S) 4x CD ROM Drive (SCSI)	$175
Toshiba (5301B) 4x CD ROM Drive (SCSI)	$279
Toshiba (3601B) 4.4x SCSI CD ROM Drive	$292
NEC 511 4x CD ROM Drive (SCSI)	$279

486DX4-100Mhz (PCI) System $799

- Mini Tower Case w/230w Power Supply
- 486DX PCI + VLB Main Board
- 256KB External Cache Memory
- Cyrix 486DX4 100 Mhz Processor
- 486 Math Co-Processor Built in
- CPU Cooling Fans & Heat Sink
- 4MB Main Memory
- PCI- Dual Port EIDE Controller
- 2 Serial,1 Parallel Printer Ports
- 1.44MB Floppy Drive
- 425MB EIDE Hard Disk
- PCI Enhanced Graphic Accelerator w/1MB RAM
- 14" Non Interlaced SVGA Color Monitor (0.28)
- 101 Keys Enhanced Keyboard

486DX4-100Mhz $1129

- PCI System + Multimedia
- Mini Tower Case w/230w Power Supply
- 486DX PCI + VLB Main Board
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- 4MB Main Memory
- PCI Dual Port EIDE Controller
- 2 Serial, 1 Parallel Printer Ports
- 1.44 MB Floppy Drive
- 425MB EIDE Hard Disk
- PCI Enhanced Graphic Accelerator w/1MB RAM
- 14" Non Interlaced SVGA Color Monitor (0.28)
- 101 Keys Enhanced Keyboard
- Multimedia Upgrade Kits
- **True16 Bit Stereo Sound Card**
- 4x (Quad Speed) CD ROM Drive
- Pair of Shielded Stereo Speakers

Optional Choices
AMD 486DX4-100Mhz CPU . . . .Add $29
Intel 486DX4-100Mhz CPU . . . . .Add $99

NexGen P90Mhz VLB System $1099

- Mini Tower Case w/230w Power Supply
- Alaris NexGen P90Mhz VLB System Board
- 32K Internal Cache Memory
- 256KB External Cache Memory
- 8 MB Memory
- IDE Floppy/Hard Disk Controller
- 2 Serial, 1 Enhanced Printer Port
- 1.44MB Floppy Drive
- 425MB EIDE Hard Disk
- 32 Bit VLB Enhanced Graphic Accelerator w/1MB
- 15" Flat Screen SVGA NI Color Monitor (0.28)
- 101 Keys Enhanced Keyboard

Optional
Upgrade to P100Mhz ....Add $59

Pentium PCI System TRITON

- Mini Tower Case w/230w Power Supply
- TRITON Pentium 586 PCI Main Board
- 256KB External Cache Memory
- CPU Cooling Fans & Heat Sink
- 8 MB Memory
- PCI-IDE Enhanced Controller
- **Hi Speed I/O :**
- **2 Serial, 1 Enhanced Printer Port**
- 1.44MB Floppy Drive
- 1,275MB EIDE Hard Disk (<11ms, 256K Buffer)
- PCI Graphic Accelerator w/1MB RAM
- **Sony OEM (ArtMedia) 15" Flat Screen Monitor**
(Trinitron .25 Picture Tube Made in Japan)
- 101 Keys Enhanced Keyboard

System Sale

Intel Pentium 75Mhz	**$1465**
Intel Pentium 90Mhz	**$1565**
Intel Pentium 100Mhz	**$1665**
Intel Pentium 120Mhz	**$1999**

Pentium PCI Multimedia System TRITON

- Mini Tower Case w/230w Power Supply
- TRITON Pentium 586 PCI Main Board
- 256KB External Cache Memory
- CPU Cooling Fans & Heat Sink
- 8 MB Memory
- **PCI-IDE Enhanced Controller**
- **Hi Speed I/O**
- 2 Serial, 1 Enhanced Printer Port
- 1.44MB Floppy Drive
- 1,275MB EIDE Hard Disk (<11ms, 256K Buffer)
- PCI Graphic Accelerator w/1MB Ram
- **Sony OEM (ArtMedia) 15" Flat Screen Monitor**
(Trinitron 0.25 Picture Tube. Made in Japan)
- 101 Keys Enhanced Keyboard
- **Multimedia Quad Speed Kits**
- **Sound Blaster16 Stereo Sound Card**
- **HiTachi 4x Quad Speed CD ROM Drive(150ms, 600kb/Sec Speed Time)**
- **Speakers**

System Sale

Intel Pentium 75Mhz	**$1665**
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Intel Pentium 100Mhz	**$1865**
Intel Pentium 120Mhz	**$2199**

Memory Sale

1MB/4MB (30pins)	$38/129
4MB/8MB/16 MB (72pins)	$139/279/499
4MB/8MB/16 MB (72pins) w/Parity	$149/299/529
4MB/8MB (EDO)	$180/360

Main Board w/CPU Sale

ISA Main Board	
486-40Mhz SLC/DLC	$59/69
486-40/66 SLC (Vesa Local Bus)	$69/89
486 Main Bord VLB w/128K Cache	
Cyrix 66/80Mhz	$129/139
AMD 66/80/100Mhz	$149/159/169
Intel 66/100Mhz	$179/269
Optional	
Upgrade to 256KB Cache	$15
Upgrade to PCI with 256K Cache	add $29
Alaris (VLB) Main Board, CPU & 256K Cache	
IBM 486-75Mhz	$159
NexGen Pentium 90/100 Mhz	$319/359
Pentium PCI Main Board (Built in 4 PCI-EIDE & Hi Speed I/O Ports & 256k)	
SiS-P75/90/100/120Mhz	$369/469/569/799
Intel Triton P75/90/100/120 Mhz	$389/489/589/819
Intel Zappa P75/90/100/120 Mhz	$444/555/666/888
Intel Endeavor P75/90/100/120 Mhz	$599/699/799/1199
Endeavor Add on 256K Cache Module	Add $59
Endeavor Add on 256K Pipelined Cache	Add $159
TRITON Pentium w/PipeLined Burst 256 Cache & Voltage Regularator	
P75/90/100/120Mhz	$499/599/699/999

Video Card Sale

Mono Graphic Card w/Printer Port	$25
16 Bit SVGA Card with 256K/512K/1MB Ram	$29/39/59
16 Bit Windows Accelerator w/1M (16M Color)	$69
32 Bit Windows Accelerator w/1MB (VL-Bus)/(PCI)	$69/79
S3 Trio 64 Graphic Card w/1MB (PCI)	New $95
Diamond Stealth-64 w/1MB (PCI)/(VLB)	$119/129
Diamond Stealth-64 *Video* w/2MB (PCI)/(VLB)	$169/179
Diamond Stealth-64 *Video* w/2MB Video Ram (PCI)	$249
Diamond Stealth-64 *Video* w/4MB Video Ram (PCI)	$429
ATI Mach 32 (Graphic Wonder) w/1MB (VLB)	Best Price $79
ATI WinBoost (Expression) w/2MB (PCI/VLB)	$175
ATI Winturbo (Mach 64) w/2MB Vram (PCI)	$249
Media Vision SVGA (VL-Bus)w/2MB Video Ram	New $135
#9 Vision 330 (PCI/VLB) S3 Trio 64, 2MB Dram	$169
#9 Motion 771 (PCI/VLB) S3 968, 2MB Vram	$279
Matrox Graphics-Millennium (PCI) 2MB/4MB Vram	$329/479

Floppy Drive Sale

Fujitsu 1.2MB (5 1/4")/1.44 MB (3 1/2")	$37.99 /27.99
Teac 1.2MB (5 1/4")/1.44MB (3 1/2")	$42.99/32.99

Hard Disk Sale

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SamSung (IDE) 850MB/1.2GB-11ms	New $189/239
Conner(IDE) 420/540/850 MB, 1.2GB(11ms)	$139/169/195/239
Maxtor(IDE) 425/540/850 MB, 1.2GB/1.6GB (11ms)	$139/169/199/259/449
Western Digital(IDE) 540/850 MB, 1.2GB/1.6GB (10ms)	$179/209/299/499
Quantum 540/840MB (Mod 4)/1.08GB (Mod 4)	$175/209/289
SCSI	
Conner 1.06/2.1/4.3GB (8.5ms)	$369/699/999
Quantum 540MB/840MB/1.08GB/2.1GB/4.3GB (8.5ms)	$199/259/349/789/1069
Fujitsu 525MB/1.05GB	$199/379
Fast/Wide SCSI Drive 8.5ms	
Fujitsu 1.0GB/2.1GB	$499/799
Conner 1.0GB (Wide SCSI)	$555
Quantum 2.1GB (Wide, 8.5ms)	$899

Controller Sale

I/O Port Card (2S, 2P,1G)	$12.99
Hi Speed I/O (2-16550 UART, 2P-Enhanced)	$34.99
Printer Port Card	$9.99
16 Bit IDE w/I/O Ports	$12.99
16 Bit IDE w/Hi Speed I/O Ports	Best $19.99
32 Bit Enhanced IDE with I/O Ports	$16.99
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PCHDE Only	$19.99
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PCI- IDE Caching Controller (infopedia)	$109.99
Promise 4030 (VLB) IDE Caching Controller	$99.99
Promise 5030 (PCI) IDE Caching Controller	$129.99
Adaptec 1522/1542C (ISA) SCSI Controller	$75/175
Adaptec 2940/2940W PCI SCSI Controller	$199/249
AdvanSys SCSI Controller (ISA)/(VLB)/(PCI)	$139/169/159
Bus Logic BT946C	$169

Monitor Sale

14" Flat Screen Monochrome Monitor	$79
14" VGA Mono Monitor	$99
14" Non Interlaced SVGA Color Monitor (0.28)	$199
15" Flat Screen SVGA Color Monitor (0.28)	$279
15" Impression 5 Flat Screen Monitor (0.28)	$309
17" ShamRock SVGA Color Monitor (0.28)	$579
17" Impression 7 SVGA Color Monitor (0.28)	$599
Sony OEM Monitor	
15" (Trinitron 0.25 Tube) SVGA Monitor	$419
17" (Trinitron 0.25 Tube) SVGA Monitor	$699

Modem Sale

14,400 Fax Modem Int./Ext.	$42/65
14,400 Fax Modem Int./Ext. + Voice	$52/75
28,800 with V. 34 (Internal)/(External)	$115/145
PCMCIA 14.4 Fax Modem/Voice	$99/129
PCMCIA 28.8 + V. 34 Fax Modem Int.	$199
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Colorado Tape Drive	
350MB/External Tracker	$139/299
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Colorado Tape Cartridge (QIC)	
250/350/800MB,1.3GB	$12/25/35/40
Conner Tape Drive	
420/850MB, 4GB	$139/199/ 529
Conner Tape Cartridge (QIC)	
420/850MB, 4GB	$15/29/39

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D Link16 Bit Ethernet Card Combo (RJ45, BNC)	$34
3Com 3c509B COMBO Ethernet Card (RJ 45, BNC)	$119
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Coax Cable w/BNC Connector 10/25/50/100 ft	$5/9/14/19

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256 Gray Scale Hand Scanner	$79
16M True Color Hand Scanner	$169

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Mitsumi 101 Keys Enhanced Keyboard	$16.99
101-Click-Enhanced Keyboard	$18.99
Maxi Switch/Keytronic 101 Keyboard	$29
Chicony 101 ** Natural ** Keyboard	New $49
NMB 101 Click Enhanced Keyboard	$49
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101 Enhanced Keyboard
+ MS compatible Mouse
16 bit Stereo Sound card
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AMD 486DX2-66	$949
AMD 486DX2-80	$959
AMD 486DX4-100	$969
Cyrix 486DX2-66	$919
Cyrix 486DX2-80	★$929
Intel 486DX2-66	$969
Intel 486DX4-100	$1059

VESA LOCAL BUS SYSTEM

Mini Tower Case w/230W P.S.
3 VL-Bus Slot Motherboard
w/256K Cache Memory
4MB Ram Memory
2FD/2HD IDE Controller
1.44MB Floppy Drive (3 1/2")
540MB Hard Drive (14ms)
32 Bit VL-Bus Video Card /1MB
14" SVGA, N.I. Monitor (.28dp)
101 Key Enhanced Keyboard

AMD 486DX2-66	$839
AMD 486DX2-80	$849
AMD 486DX4-100	$859
Cyrix 486DX2-66	$809
Cyrix 486DX2-80	★$819
IBM 486SLC2-66 w/*64k	$799
Intel 486DX2-66	$859
Intel 486DX4-100	$949

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Mini Tower Case w/230W P.S.
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540MB IDE Hard Drive
1 MB PCI Video Card
16 Million True Color Display
14" N.I. SVGA Monitor (.28dp)
101 Key Enhanced Keyboard

AMD 486DX2-66	$869
AMD 486DX2-80	$879
AMD 486DX4-100	$899
Cyrix 486DX2-66	$839
Cyrix 486DX2-80	$859
Intel 486DX2-66	$889
Intel 486DX4-100	$989

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101 Key Enhanced Keyboard

850 MB Hard Drive 15"Monitor

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Pentium 90 MHz	$1419
Pentium 100 MHz	$1519
Pentium 120 MHz	$1859
Pentium 133 MHz	$2119

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540MB hard drive
VL-Bus IDE
w/fast serial ports
1.44 MB Floppy drv
Acer 4X CD-ROM
16bit Sound card
160W speaker pair
15" Monitor
101 Keyboard
mouse

$1499

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850MB Hard Drive
VL-Bus Video Card /1MB
VL-IDE Controller, w/*Fast I/O*
28.800 US Robotics Ext. Fax/Modm. v.34
1.44MB Floppy Drive (3 1/2")
15" SVGA Monitor (.28dp)
101 Key Enhanced Keyboard
serial mouse

AMD 486DX2-66	$1319
AMD 486DX2-80	$1339
AMD 486DX4-100	$1359
Cyrix 486DX2-66	$1289
Cyrix 486DX2-80	$1309
Intel 486DX2-66	$1379
Intel 486DX4-100	$1429

! Upgrades ! Upgrades ! Upgrades !

4MB to 8MB RAM Memory	Add $160	Mini to Medium/Full Tower	Add $30 / 50
4MB to 16MB RAM Memory	Add $450	VLB to PCI M.B w/PCI Video	Add $95
8MB to 16MB RAM Memory(72p)	Add $320	256KB to 512KB Cache Memory	Add $50
540MB Hard Drv. to 850MB (IDE)	Add $45	14" SVGA,N/I to 15"/17"	Add $119 / 350
540MB Hard Drv. to 1.0GB (IDE)	Add $175	15" SVGA to 17"	Add $250
850MB Hard Drv. to 1.0GB (IDE)	Add $85	486 CPU Cooling Fan	Add $15

!! Ask for other Upgrades !!

Multimedia Upgrade Kits

Panasonic Double Speed CD Kit **$149**
Panasonic Double Speed CD-ROM Drive

TEAC 4X-Speed CD Kit **$239**
Teac 55A Quad Speed CD-ROM Drive
includes:
- Gallant 16bit Stereo Sound Card, Sound Blaster Pro compatible
- 1 Pair of Shielded Speakers
- Sound Card software
- Grolier Encyclopedia CD

Pioneer or Mitsumi
4X Speed IDE $279
- Sound Blaster 16 IDE Sound Card
FREE 1 Pair of Shielded Speakers
FREE Sound Card software
FREE Grolier Encyclopedia CD

HIGH END!

PENTIUM MULTIMEDIA

Medium Tower w/230W P.S.
PCI-Bus **Intel** chipset Motherboard
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cpu cooling fan w/ heat sink
16MB Ram Memory
Qlogic *Fast! SCSI* PCI Controller
1.44MB Floppy Drive (3 1/2")
1.0GB Conner SCSI Hard Drive
Diamond Stealth *Video 64* PCI / 2MB
Toshiba ***4X*** *SCSI* CD-ROM drive
Sound Blaster 16 sound card
200 Watt *Shielded* Speaker set
15" SVGA, Digital Monitor (.28dp)
Microsoft Natural Keyboard
Microsoft Mouse

Pentium 100Mhz	$3228
Pentium 120Mhz	$3578
Pentium 133Mhz	$3828

! HOT Specials !

Diamond Stealth Video 64 - *PCI / 2MB VRAM*	$279
Toshiba 4X 5302B IDE-(190ms,600KB/s) ,**256K buffer**	$179
Toshiba 4X 5301BSCSI-(150ms,660KB/s),**256K buffer**	$\$269^{99}$
Iomega Zip100 Drive -PC, Parallel, External	$209
Pro PC TV (PC to TV/VCR external Adapter)	$\$179^{99}$
Multi Pro CTV (Mac/PC to TV/VCR external Adapter)	$\$279^{99}$
NexGen NX586 P-90 VL-Bus/256K Cache mb, cpu+fan	$325

28,800 Fax/Modem v.34 .... $\$125^{99}$
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- 1MB Video RAM with Win Accelerator
- PCMCIA Slots, One Type III or One Type II
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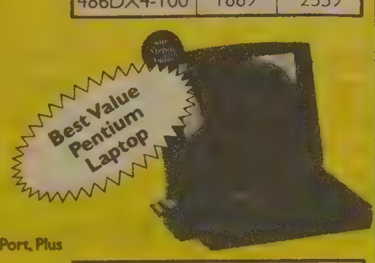

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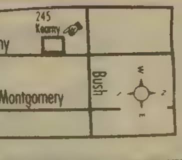

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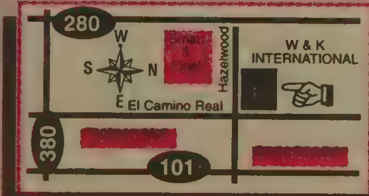

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MultiMedia & BEYOND

Gulch GOSSIP

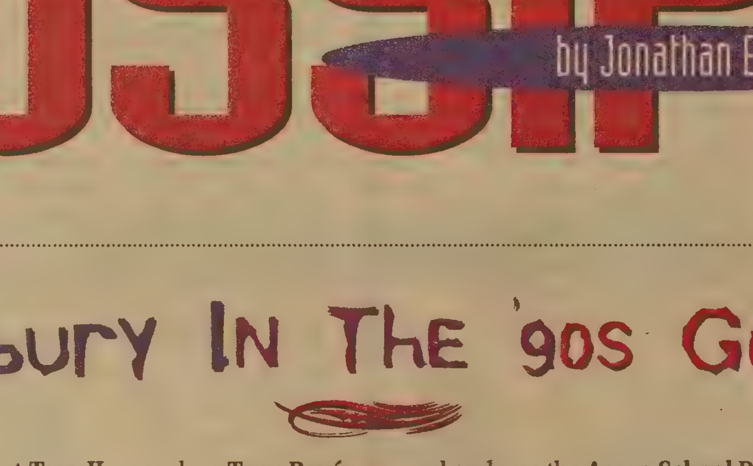
by Jonathan E.

Haight-Ashbury In The '90s Goes North

One of the more exciting moments at **Art Teco II** was when **Tony Bové** strode into **Marc Canter**'s presentation of **The MediaBand Construction Kit** with shrinkwrapped, stash-boxed copies of Rockument's first CD-ROM release, ***Haight-Ashbury in the Sixties***, under his arm.

Most of us have seen Tony demonstrating the title at numerous events over the past year or so—and occasionally wondered if it was ever going to see the full light of day due to the scope of the project and some of the licensing difficulties it faced—but here was proof that even long multimedia hauls can come to an end.

To celebrate the release, **Bové** and **Cheryl Rhodes**, his partner and accomplice, threw a big party over the July 4th weekend at their Gualala headquarters on the Mendocino coast. My tangled personal life didn't allow me to attend in person—but my faithful reporters, **Trisha Gorman** and **Sylvia Paull**, gave me the sense of being virtually there.



Trisha reports that it was "a fabulous five-day party on fifty acres of land. The CD-ROM played on multiple monitors in the house and in the multimedia development studio (turn left at the hot tub). The walls of the house are filled with vintage posters from the **Fillmore Auditorium** and **Avalon Ballroom** while the background soundtrack to the weekend was of the **Grateful Dead/Jefferson Airplane** flavor."

She comments, "The CD looks great and with its video clips of **Allen Ginsberg**, **Ken Kesey**, **Abbie Hoffman**, and others—not to mention terrific music. It's a great archive of the period. It's also fun—a trip down Memory Lane for the fortysomething crowd, and compelling for those who weren't even born at the time."

Getting back to the party, she continues, "One of the highlights of the weekend was the **Acorn School Picnic**, where Tony and Cheryl's son goes to school. How many elementary school benefits feature a nearly original Grateful Dead keyboardist, **Tom Constanten?** In addition to tie-dyed T-shirts on all the kiddies, pink, purple, and yellow wildflowers were in bloom all up and down the Mendocino coast. Never mind the allergies—it was a beautiful, relaxing weekend away from the Bay Area. Though many from the multimedia crowds of L.A., N.Y., and S.F. were in evidence, no one mentioned the 'M' word once." Now, that I find hard to believe!

Sylvia's take is, well, a hair more Sylvia, as one might reasonably expect. She notes that "our Toyota Camry looked positively shabby parked next to the fancy cars—Lexi, Mercedes, Miatas, Rangers—on the dirt shoulders surrounding the **Bové-Rhodes**' ranch-style shack. Most of the B-R's land is forest, but with some meadows, and all sites appropriately named after *dead* rock stars: Lennon Meadows, Hendrix Highlands, etc. (Nothing for Elvis yet—he isn't really dead, is he?) Saturday night there was a gigantic catered affair from Sweet Pea Co. in Gualala, with roast salmon, beef, hundreds of prawns, and other incongruously non-Gualala food. (Gualala is a town lost in the '60s—major source of income for most of the residents: marijuana sales. Most people live hidden in the hills above the ocean on roads only accessible by foot or four-wheelers.)

"Among the guests were Tom Constanten, former keyboarder for the Grateful Dead, **Roger Jones** from ION, **Allen Cohen**—beat poet (and founder of the *Oracle*, the '60s underground paper around which the CD-ROM is based), **John Gilmore** (a founder of Sun), **David Biedny** (the Photoshop guru), **Marc Canter** *en famille*, **Tom Hargadon**, **Raines Cohen**,

"Haight-Ashbury... continued

Kandy Arnold, and an assortment of hackers, artists, acoustic guitarists, hangers-on, and dogs.

"Sunday, Tony got us to attend the Pt. Arena parade—his son, **John Paul** (named after two Beatles, one of whom is still alive!), was in the Acorn School float. We went en masse 12 miles up in the hills to the Acorn School picnic, where hundreds of hippy parents hung out with their rebellious, semi-straight teenagers. Tom Constanten played keyboards—he's actually good. That night, we watched the best fireworks I've ever seen from the balconies of several hotel rooms in Pt. Arena. The last two days were reserved for those into serious trips (acid and mushrooms) and who knows if they ever made it out of the forest." That I might believe!

Next month's Multimedia 101 column will look at *Haight-Ashbury in the Sixties* in more detail. In the meantime, those of you still flailing about in the multimedia world (That's almost all of you, right? Sorry, I meant *us*!) might find **Trisha Gorman**'s new book, *Careers in Multimedia: Roles and Resources*, coauthored with **Hal Josephson**, useful. It's due out soon from Wadsworth and will be available in college bookstores.

* * *

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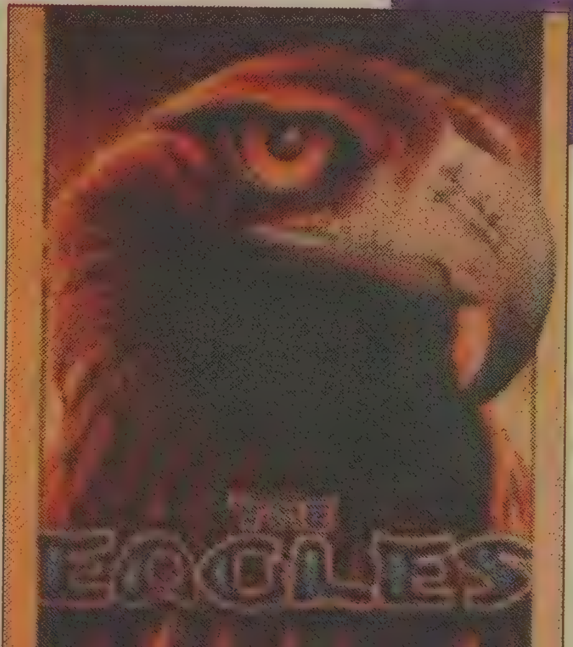
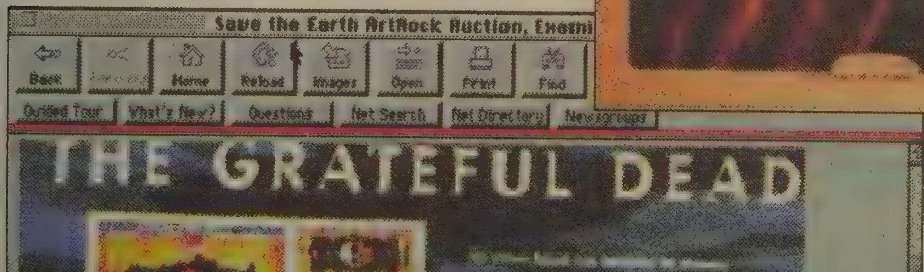
The Save The Earth Foundation Rocks Out Online



The **Save the Earth Foundation**, in an ongoing fundraising effort, will auction off up to twenty artist-signed rock posters every month on its new Web site. The site, which is directly accessible from AOL, recently won a rating as being in the top 5% of all Web sites by the Point Survey, a ratings service for online providers, as well as being listed by CNN as one of its Top Ten sites.

In an effort to increase the appeal of the site and keep viewers engaged, a certain gossip columnist has been recruited to provide editorial content along with other volunteer writers. This he will do as soon as he finishes writing this column.



Generally, we plan to provide eclectic coverage of musical multimedia, overlooked and underappreciated artists (particularly African musicians in my case) with features, interviews, and reviews including sound clips, and some environmental issues. We believe that just as a healthy ecosystem needs diversity, so does a cultural diet. We aim to obliterate musical boundaries—the rock art is part of an elaborate bait-and-switch strategy. To provide interactivity between users and contributors, there'll also be moderated discussions of articles posted.

Space for the site is donated by **Global Commerce Link** of Boulder, Colorado, while **Bear Image** of Palo Alto contributes the use of a digital camera for digitizing the posters. **Macromedia** gave me a copy of SoundEdit 16 for making sound clips. The list of artists who have donated signed art is long and varied, ranging from the **Dead Kennedys** to **George Strait**. Some of it is also donated by the **Artrock Gallery**, which also has its own Web site. Its own press release neglected to give its URL—but I've since been informed that it's *http://www.artrock* . The Save the Earth site's URL is *http://www.commerce.com/save_earth* .

Hopefully, by the time you read this, we'll have it full of musical coverage that you won't be able to read (or hear) anywhere else. For further information on The Save the Earth Foundation or to contribute art, email **Ken Margolis** at *savetearth@aol.com* . To contact me with editorial questions, email me at *jeve@well.com* .

* * *

I. M. Frivolust Calls In

One of my further flung correspondents, **I. M. Frivolust**, calls in with words of a multimediast of a different feather: **R. U. Sirius** "just looves publicity" (his spelling) and wants the world to know of **Mondo Vanilli** and the forthcoming *IOU Babe* CD release. What does I. M. think? Well, not content with bringing print culture to its knees with *Mondo 2000*, R. U. now assaults Western civilization with a bunch of downright rowdy and corrosively malcontent tunes. It's a bewildering, if not absurd, trashing of more musical genres than **Jabba the Hutt** could manage in a trilogy.

Thankfully, R. U. and his cohorts, Simone Third Arm and Scrappi Düchamp, leave African music out of the mix; but "Love Is the Product" sports a nice soul-style horn arrangement, while its "Cadillac Freak" remix has the cheesiest possible organ slanking along like '60s lounge goo. Otherwise, the pot is thickened with heavy beats, some energetic and slammy, some lethargic and grinding, but always acerbic and crunchy along with slinky guitars and original sounds that deserve to be sampled widely. You know the MV crew are surely pulling their own samples too, but they twist everything just enough so's you couldn't easily pin too much on them.

The lyrical range extends from the above-mentioned title about being a Cadillac in a world of humans to seeding new life on a planet with the Sirius one's fecal matter (that's the impression I get anyway, and this CD is all about impressions, mostly bad ones). IOU Babe slurs media life, personality cults, self-reference, and sexual relationships together with capitalism and potty humour in ugly and profound ways. Vocally, it's weird, actually the whole thing is pretty weird—and I'm not sure they didn't bring in session singers for the tricky bits.

Much of it is disquieting—but it's also the most fun music I've heard for a while, dirty and disgusting fun and being had by the musicians if you can call them that. All told, it's not surprising that a semi-major label associated with fake musical icon **Trent Reznor** found it too rich for release in the current cultural climate.

Along with sound recordings, R. U. returns to the print world, adding insult to injury with a couple of books: *The Real Cyberpunk Fake Book*, cowritten with former *Mondo 2000* senior editor **St. Jude** and **Bart Nagel** and due out now from Random House, and a foray into what purports to be even more fictional than his usual delusions with *How to Mutate & Take Over the World*, also cowritten with St. Jude and due out in November from Ballantine.

He also has the usual plans for a Web site, a CD-Plus, and new media blah blah blah. Mr. Sirius was even looking around for folks to fill semi-cyber positions like office manager in such enterprises.

In the meantime, if you ask nicely, Mondo Vanilli may allow you to buy a copy of *IOU Babe* by contacting them at P.O. Box 27366, San Francisco, CA 94127, calling (415)333-8502, or emailing *rusirius@well.com* .

I'd like to personally thank I. M. Frivolust for that report, but she seems to have become far flung again. I'll just add that as we go to press, Mondo Vanilli are changing their name to **The Artists Formerly Known As Mondo Vanilli**. I guess a little megalomania never hurt anyone in showbiz—but let's keep TAFKAMV out of that nice South Park, they'll frighten the kids and dogs.

Stop Press: That name change lasted all of two hours. Now TAFKAMV are known simply as MV. How utterly boring! I think they're just looking for more publicity when they inevitably change the name again.

Basic But Visual

Congratulations to **Tim Glaser** of SBD Productions, one of the Gulch's more street-level multimedia producers, for winning the **Best Programming Award** in the multimedia category from the *Visual Basic Programmers Journal* for his work on the *Johnny Cocktails* CD-ROM. He also won a runner-up place for *How to Be Perfect*. Both titles are available through Great Bear Technology, which recently acquired StarPress Multimedia. The new company will do business as StarPress. The idea is to leverage their distribution agreements by combining their diversified product lines.

Meanwhile, Tim Glaser has been working on development of several new characters for future CD-ROMs. One in particular seems to me to have great potential. He can be contacted at (415)552-6561.

Digital Media Center Expands Its Family

If you don't see **Nina Mullen** around the San Francisco Digital Media Center quite so much in the next couple of months, that's because she's attending to her and **Joe Lambert**'s new family member—due to arrive September 8th, sex currently unknown. Congratulations to you both—and now you're going to learn a lot more about interactivity! As Joe said, "The human newborn—the most complex example of interactivity possible."

However, the Center continues with a full summer program and expanded offerings for the fall. Over the summer, the DMC ran three sessions of its innovative **Tapestry Project**, designed to bring middle and high school students together with digitally minded artist-mentors to create between fifty and sixty new digital video works that will be assembled on a CD-ROM for release in late fall.

The DMC and **Dana Atchley**'s D3TV are producing the **Digital Storytelling Festival** in Crested Butte, Colorado, to be held between October 12 and 17. **Abbe Don**, **Harry Marks**, **Mark Petrakis**, and, of course, the master raconteur Dana Atchley will all participate in that event. One new fall course in town of particular interest is the Web Designers Cookbook, which will feature Web site designers such as **Hank Duderstadt**, **Mark Petrakis**, and **Mark Pesce** talking about their work and the issues they face.

In addition, the Center will offer its usual Digital Diner and other classes. For the fall schedule of events, email *jello@well.com* or call the Center at (415)824-9394.

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Intel 486DX2-66MHz $954

AMD 486DX4-100MHz $939

TOSHIBA 3601 4.4X SCSI CD-ROM $299

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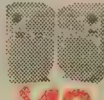

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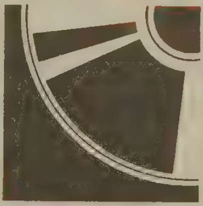

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Sound Blaster Vibra MCD	79
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14,400 Fax Modem w/Voice	59
14,400 Fax Modem w/MNP v.42	59
28,800 Modem/14,400 Fax w/V.34	119
28,800 Modem/14,400 Fax w/V.34, ext	149

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230W PS	29
300W PS	69
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Logitech Mouseman (Bus)	$55
Logitech Mouseman (PS2)	55
Logitech Trackman Combo	69
Logitech Dexxa Serial	15

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Viewsonic 15G 1024x768 .28 Green Digital 76 Hz	419
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Panasonic 1.2MB/1.44MB	46/36

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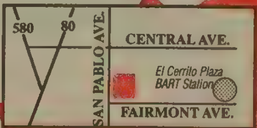

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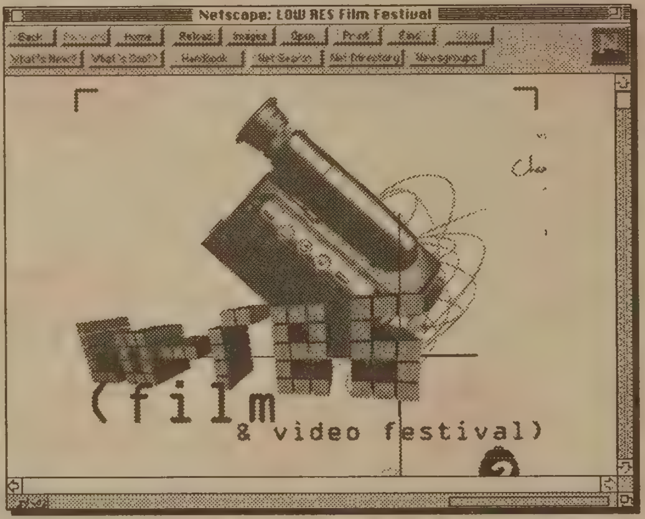
GULCH GOSSIP *continued...*

OPEN SCREENS & LOW RES

ARE YOU A FRUSTRATED FILMMAKER or video artist? Or do you want to see what they do for their own pleasure? Here's a couple of ways to open a window into that world.

Taking place in the real, physical world is **Open Screens**, a monthly event organized by **Frank Colin** under the name Gulture Enterprises (I don't know, Frank, a bit of an overly clever name there!). Work can be submitted in almost any digital or analog format from Mac, Windows, and DOS through 3/4" video, Beta, Super VHS, VHS, and Hi-8 to 8mm or 16mm film. It's a sort of open mic night for video work, a way to "present your stuff to your peers and an appreciative audience, not to critics or reviewers" (sometimes I feel so small and unliked). There'll be large-screen displays and a good sound system—but, as you might imagine, it's a good technical idea to sign up first. To do so, or for further info, contact Frank Colin via phone at (415)289-4332 or via email at *gulture@nbn.com* . Opening night is September 21 at the Transmission Theater, next to the Paradise Lounge on 11th Street by Folsom in San Francisco.



The Low Res Film and Video Festival is an event in the real, cyberspace world on a Web site. **Jonathan Wells**, organizer of the site, writes, "We have an array of crazy QuickTime clips and photos from featured films. We are using the site to solicit submissions internationally and locally. The idea for Low Res grew out of the film fest we held in our screening room during our Christmas party. We wanted to show works—films, videos, and animations done by our coworkers (Jonathan's day job is as a pro-

continued on page 334

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ASUS Triten w/256K 90MHz	**$535**
ASUS Triten w/256K 100MHz	**$640**
ASUS Triten w/256K 120MHz	**$865**
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SONY	
CPD-15SF 1280x1024 .25	**$465**
CPD-17SF 1280x1024 .25	**$840**
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17" XV/XE/XP	**$750/950/1090**
MAG	
DX 15F	**$350**
DX 17F	**$630**
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F2-15	**$540**
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5302B IDE 190ms 4X Speed	**$165**
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Sound Blaster MCD/ASP	**$88**
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- Microsoft Sound System, built-in microphone audio out port

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T4700	486DX2/50	9.5" Dual Scan	200MB	$2698
T4700	486DX2/50	9.5" Dual Scan	320MB	2798
T4800	486DX4/75	9.5" Active	500MB	3098
T4850	486DX4/75	10.4" Active	500MB	3248
T4850	486DX4/75	10.4"" Active	722MB	3448

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T2110	486DX4/75	10.4" Active	350MB	2398
T2130	486DX4/75	10.4" Active	500MB	2998
T2130	486DX4/75	10.4" Dual Scan	500MB	2398
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T2400	486DX2/50	9.5" Dual Scan	320MB	2148
T2400	486DX2/50	8.4" Active	320MB	2698
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486DX4/75	10.3" Dual Scan	510MB	2598
486DX4/75	10.4" Active	510MB	3548
486DX4/75	10.4" Active	700MB	3798

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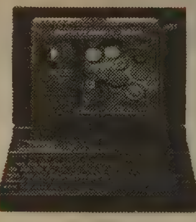

Processor	Screen	Hard Drive	Price
Pentium™75	10.4" Dual Scan	500MB	$3228
Pentium™75	10.4" Dual Scan	800MB	$3498
Pentium™75	10.4" Dual Scan	1.2GB	$3968
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Pentium™75	10.4" Active	1.2GB	$4998

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486DX2/50	10.4" Active	340MB	2648
486DX2/50	10.4" Active	520MB	2848
486DX4/100	10.3 Dual Scan	340MB	2878
486DX4/100	10.3 Dual Scan	520MB	3098
486DX4/100	10.4" Active	340MB	3278
486DX4/100	10.4" Active	520MB	3478

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486DX2/50	8.5" Dual Scan	260MB	$2448
486DX4/75	8.5" Dual Scan	170MB	$2748
486DX4/75	8.5" Dual Scan	260MB	$2928

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HP ScanJet3P, Greyscale	$448.00
HP DeskJet 1600C	$1298.00
HP InkJet Printers	
HP DeskJet 320	$298.00
HP DeskJet 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskJet 660C	$478.00
HP DeskJet 1600C	$1298.00
HP DeskWriter 320	$288.00
HP DeskWriter 320 w/Sheet Feeder	$358.00
HP DeskJet 850C	$548.00
HP DeskWriter 660C	$478.00
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Pentium 75MHz	10.4" Active	772MB	$4598

TravelMate 4000M

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- 2 Type II or 1 Type III PCMCIA slots
- 16-Bit Sound card

Processor	Screen	Hard Drive	Price
486DX2/50	9.5" Dual Scan	340MB	$1998
486DX2/50	8.4" Active	455MB	2198
486DX4/75	9.5" Dual Scan	455MB	2198
486DX4/75	8.4" Active	340MB	2198
486DX4/75	8.4" Active	455MB	2448
486DX4/100	9.5" Active	525MB	3248

Versa P NEC

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Removeablel HD, Floppy, & Screen
Integrated speaker & microphone

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Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	540MB	$4448
Pentium 75	9.5" Active	540MB	$4298
Pentium 75	9.5" High Res.	810MB	$4798

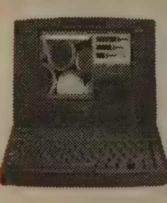
Versa M

Highest Resolution & True Color Display

2 Type II or 1 Type III PCMCIA slot
Removeable HD, Floppy, & Screen
Integrated speaker & microphone

Processor	Screen	Hard Drive	Price
486DX4/75	9.5" Dual Scan	340MB	$2298
486DX4/75	9.5" Active	540MB	$2998
486DX4/75	9.5" High Res.	540MB	$3198
486DX4/100	9.5" True Color	540MB	$3398
486DX4/100	9.5" Active	810MB	$3998
486DX4/100	9.5" High Res.	810MB	$4248

NEC Versa V
"V" for Value



Processor	Std/Max RAM	Screen	Hard Drive	Price
486DX2/50	4MB/20MB	9.5" Dual Scan	250MB	$2198
486DX2/50	4MB/20MB	9.5" Dual Scan	340MB	$2348
486DX2/50	4MB/20MB	9.5" Active	250MB	$2348
486DX2/50	4MB/20MB	9.5" Active	340MB	$2548
486DX2/50	4MB/20MB	9.5" Active	540MB	$2848
486DX4/75	4MB/20MB	9.5" Active	340MB	$2748
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ZENITH data systems

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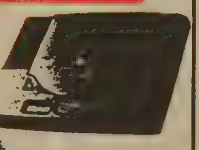

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MULTIMEDIA 101

Master/Slave Relationship

Dominating DIY Multimedia

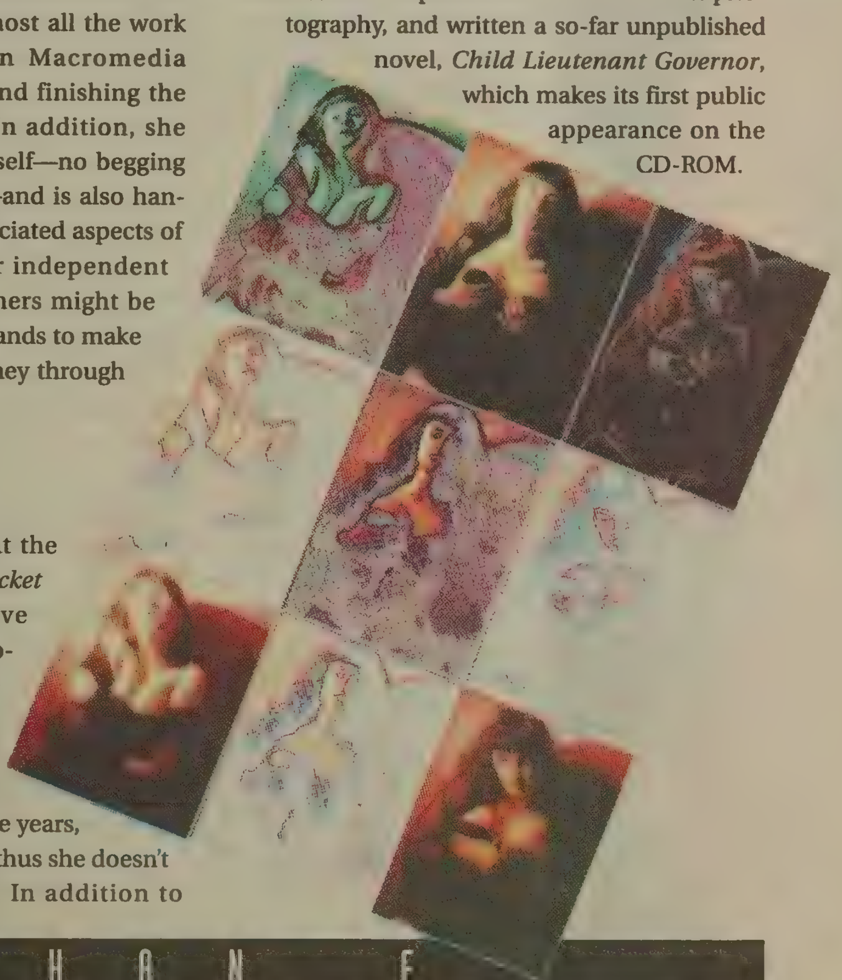
Deborah Jaffe is a powerful, creative woman. Not only has she spent the past eleven years successfully making and selling her own music under the name Master/Slave Relationship, but she's also realized one of multimedia's more idealistic dreams by self-publishing her own CD-ROM (although she calls it a "seedy-rom"), *Smut Picture Racket*, through her own company, :cybertzara.

While Jaffe disdains straight commercial pornography, it must be pointed out that *Smut Picture Racket* is not for the squeamish or those easily offended by scenes or descriptions of sadomasochism. There is an opening on-screen warning that you must be over 18 to use the disc—and, if you say you're under, you'll be unceremoniously ejected. Technically and by dictionary definition, *Smut Picture Racket* is pornography, but it is also true that this is not a title to turn to for explicitly racy thrills—most of the images and the vocals of Jaffe's music are obscured. This is also not a disc for those who like their music happy. While there's some variety to it, it's almost entirely on the dismal and anguished side, veering from harsh industrialisms to moody tone pieces.

However, what's most impressive about the CD-ROM is that Jaffe did almost all the work herself, beginning to learn Macromedia Director only in early 1994 and finishing the title by March of this year. In addition, she financed the whole thing herself—no begging an advance from publishers—and is also handling the distribution and associated aspects of bringing it to market. Other independent artists, developers, or publishers might be interested to know that Jaffe stands to make a fairly impressive sum of money through this scheme.

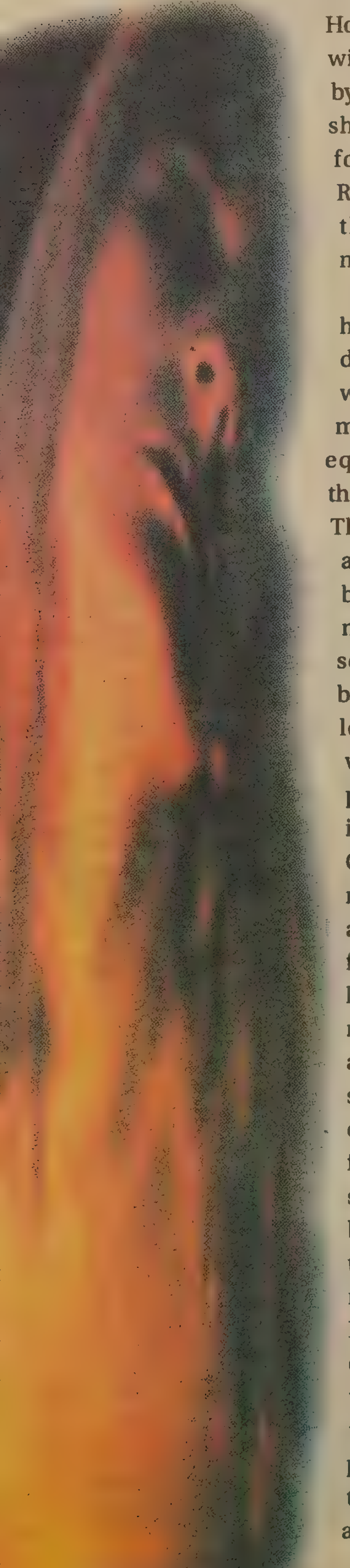
THE KEY TO THE LOCK

The key to the scheme is that the direct costs of *Smut Picture Racket* were minimal. Master/Slave Relationship has been an ongoing enterprise of Jaffe's, and the CD-ROM is mostly a collection of her previous work. Some of her music has been released by other labels over the years, but she always kept her rights; thus she doesn't have to deal with licensing. In addition to music, Jaffe has produced videos as well as photography, and written a so-far unpublished novel, *Child Lieutenant Governor*, which makes its first public appearance on the CD-ROM.



BY JONATHAN E

Obviously, having a good-sized archive of your own material removes one of the biggest hurdles to low-cost CD-ROM development. The other side of the coin is that you must have a market for your artistic expressions, niche as it may be, and that is an area where Master/Slave Relationship has a clear advantage that many other artists may not. However, this title, along with *Consumer Product* by Bill Barminski, clearly shows the possibilities for independent CD-ROM development by those with archival material.



Jaffe earns most of her keep from graphic design work; thus she was already set up with much of the computer equipment needed for the CD-ROM production. The tools needed above and beyond her regular business would include most of the video and sound desktop tools—but, as she wanted to learn those tools anyway, enjoys simply playing with them, and is working on further CD-ROMs, the costs are not directly attributable. She has her own fully equipped small home studio for original music production, and, in fact, seemed surprisingly uninterested in moving over to full-scale desktop sound production beyond the simple need to digitize and edit her music for the CD-ROM. Her only major expenses directly attributable to this CD-ROM were the manufacturing and printing. About halfway through the project, she also bought a PC to make it into a hybrid disc—and learned it from scratch. But, again that's a tool she can use for other projects.

PROCESS & PRODUCT

Jaffe is disarmingly modest when asked about the process she actually went through to produce the CD-ROM. She had already been learning Director for about eight months when she began work on the disc, having previously taught herself Photoshop and Quark after earlier training in traditional typography. It turned out that she's actually only been using a Macintosh for three years.

"The multimedia thing sounded interesting," Jaffe says, "and doing a multimedia project seemed like a natural extension of my music making and design activities. My partner and I had talked about doing a CD-ROM, and we hashed around a game idea which we're still considering. And then I guess it just popped into my head, 'Well, I have hundreds of images, I have lots of videotape, I have all this music. Why not put it together? It would be a nice challenge. It's something I know intimately. It's what I've done for so long. Why not put it on a CD-ROM and see what happens. If I couldn't present it, who could?'"

It may not have taken Jaffe a lot of money to make the CD-ROM, and the overall production only took her about seven months, but she did put in a lot of fifteen-hour days. In that time, she organized and digitized all the material herself, created many of the graphics, sized others for the screen, and did the programming for both the Mac and the PC versions. She received a little help on some of the coding from online contacts; her partner, Rick Darnell, did a very little of the camerawork in some of the videos and helped with the testing along with other friends, but it's basically a one-woman production.

It's true that it's not the most elaborate CD-ROM, being a simple branching hierarchical structure with returns and basic point-and-click triggering of audio and video clips. But you try doing it all!

Smut Picture Racket
CD-ROM

Smut Picture Racket consists of a main-screen interface, Twist & Burn, which graphically mimics the sprocket holes of traditional film. Clicking on one of the sixteen sprocket holes will take you to an intermediate screen with three obvious choices: MSR to get to a representation of one of MSR's releases, CLG for a chapter of the *Child Lieutenant Governor* novel, or Main to return you to Twist & Burn. Each intermediate screen also features a photograph of Jaffe in various stages of dress and distortion. Less obviously, clicking on her face reveals a choice screenful of her philosophy, which happens to be some of the most cogent and insightful material on the disc—sometimes that artistic emphasis on obscurity seems to be really a matter of style rather than communication.

Within the MSR section you'll get a screen that appears to be interactive with a listing of all MSR's releases, but which actually is only an intermediary screen on the way to one outlining the history of the release followed by a screen or two of lyrics. Clicking on particular lyrics cues that song.

Clicking on the CLG button takes you to a graphic screen with the first couple of paragraphs of a chapter of the novel. There's a control panel allowing you to hear Jaffe's narration,

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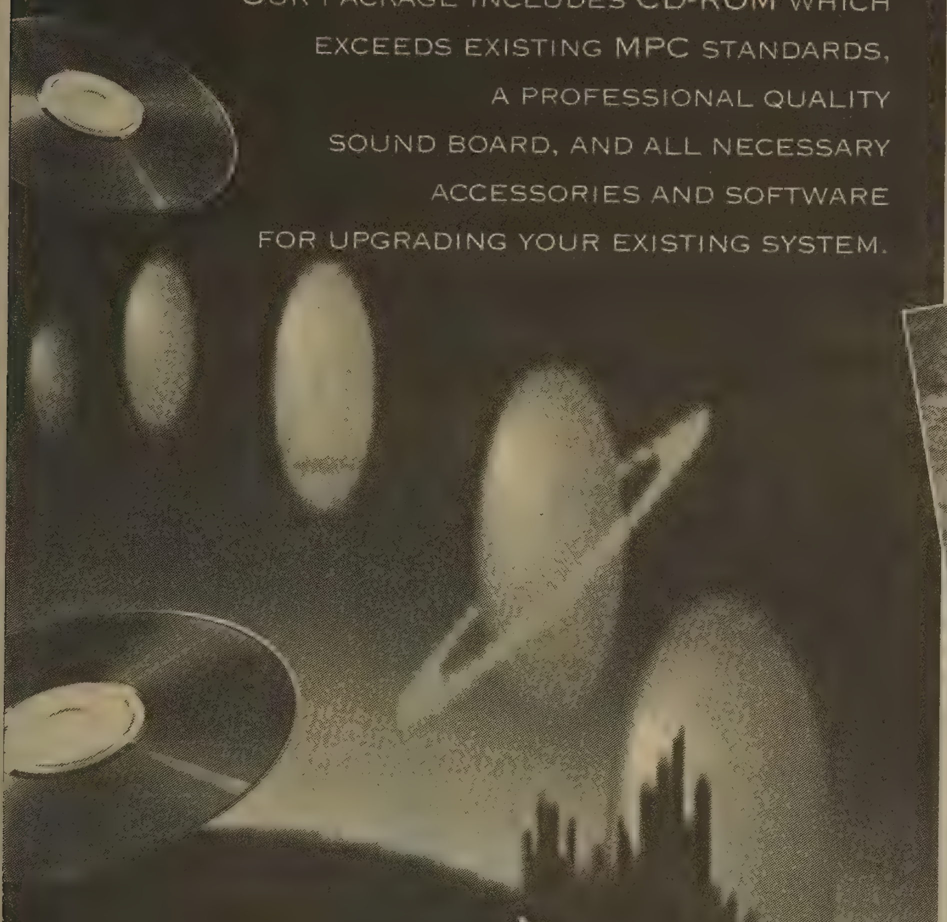

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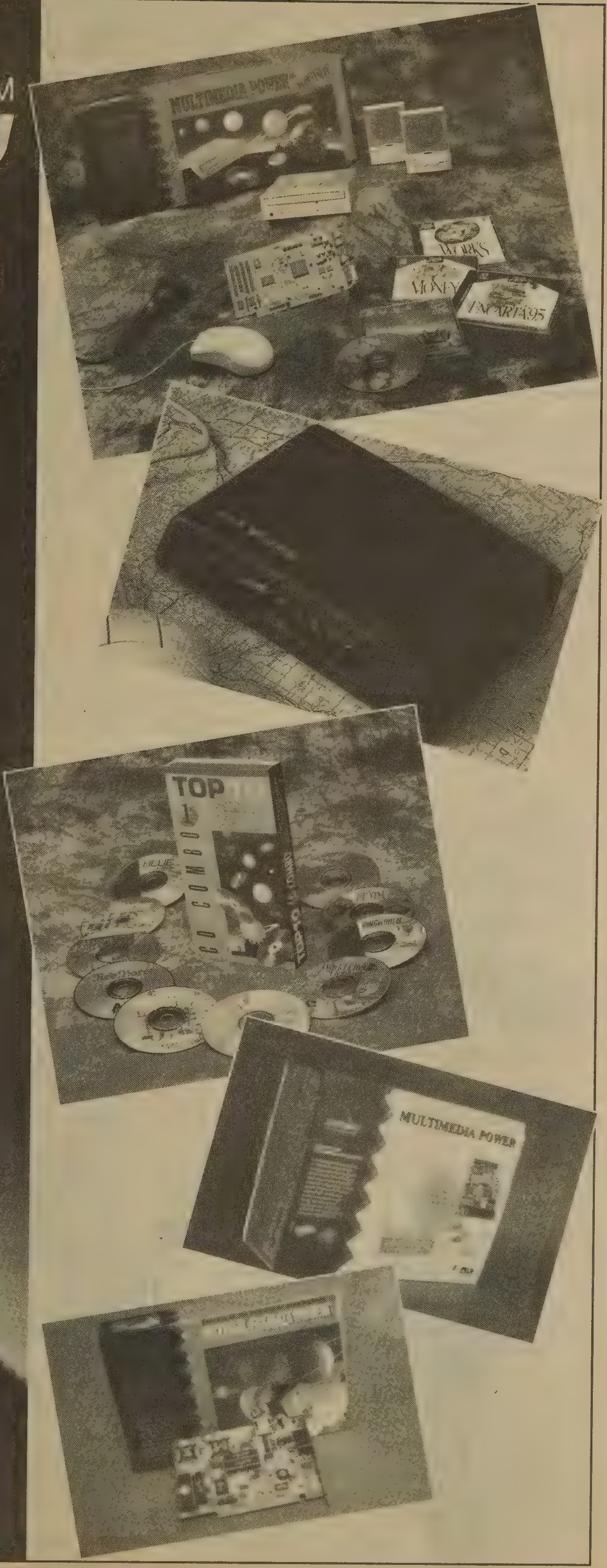

MULTIMEDIA 101 *continued...*

turn pages, or return to the Twist & Burn screen. Subsequent pages are set in a more regular type. If you choose to hear Jaffe reading the text, which she does in a surprisingly clear and undistorted voice, you get one page at a time read to you. You must click the voice button on each page to hear that page; this becomes rather tedious. A straight-through reading would have been nice.

The sixteenth sprocket hole gets you to a slightly different layout where the MSR button reveals reviews of MSR's releases, while you also get the choice of viewing the Extreme Gallery or the Peep Show—the names of which pretty much convey their content, being a collection of still photos and videos respectively.

TOOLS OF THE TRADE

Besides Director, Jaffe used only a few software tools: Photoshop, DeBabelizer to get the images down to 8 bits, SoundEdit Pro, and Premiere for the video editing and cinepacking into QuickTime. She was generally happy with the software, although she reports that she spent a lot of time on the tech-support line with Macromedia figuring out how to do things in Lingo. Jaffe found that not being a true computer programmer, which she admits is quite obvious from the way she talks, she got a couple of sarcastic responses from the tech guys on the line. But she persevered and was mostly satisfied with the support service.

Not surprisingly, considering she's first and foremost a musician, she felt most limited by SoundEdit Pro, which she thinks should have finer controls—but she eventually admitted that it did what it had to for this project. Of Premiere and its video effects, she said, "I was like a kid in a candy store."

VideoSpigot was the video board used for the digitizing. Jaffe noted that "it's a cheapie, but it does the job." However, that digitizing was a time-consuming process, taking two to four hours to digitize a 15-second clip. Jaffe mostly let the machine do the work at night while she slept.

The very hardest thing on the project was getting the install routine for Windows machines right. This was one area where Jaffe took outside help with getting a routine written using Install Shield. Overall, everything for the PC was considerably more com-

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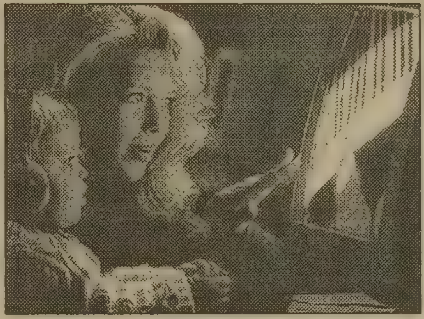

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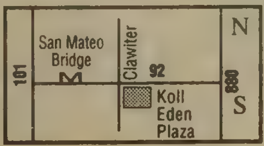

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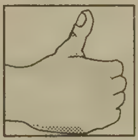

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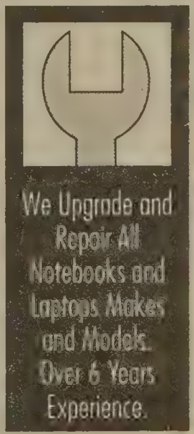

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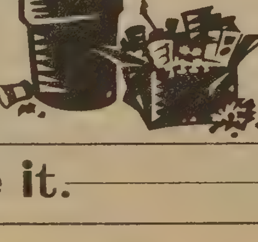

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plex than on the Mac side and Jaffe now laughs, "I wish everyone had Macs." I asked about Windows 95 and if it would be transparent to her. She replied, "I don't know. I haven't seen Windows 95. I don't keep up as much on the PC side as I do on the Mac side. Hopefully by then my two thousand copies will be sold and I'll be on to another project."

THE CRUELEST CUT

Obscurity is part of Jaffe's artistic style and she's quite explicit about it, stating that she doesn't like spoonfeeding people or making things too easy for them. However, when this style comes up against the limitations of computers, it can be frustrating and even leave one wondering about Jaffe's ability to achieve a controlled artistic effect.

The main Twist & Burn screen provides a good example. On either side of the sprocket holes, a series of words scrolls down the screen, one per socket hole. On a Power Mac they scroll down pretty fast, faster than it's possible to really read them. One's first impulse is to try and click on the words. Hitting these moving targets is pretty hard and, if one succeeds, nothing happens anyway. It's quite frustrating and time consuming. Eventually you'll think to click on the sprocket holes, especially if you actually read the paper liner that comes with the disc. But it's less than optimal design in the first place and, when one considers that the words will scroll by at different speeds on different machines, it raises questions about whether Jaffe's artistic intent met with success.

Jaffe explained that the problem is a technical one resulting from the different speeds of different computers and issues within Director. She tried to strike a balance between different machines. As an artist she admits that "the machine is dictating. It's frustrating but there's not a lot you can do. You can't tell your audience, 'Okay, you're going to have to have a Power Mac, if you don't it won't play.' Or you can't say, 'All you PC users, you'd better not have Pentiums because it's going to go by too fast.'"

I suggested a work-around based on different configurations. Jaffe's response was that she thought it was possible but "to figure out what everyone's configuration is going to be and to plan for it and to find those machines and to get it just right for each machine, I think would have been tedious. It could have been done but I guess it wasn't of the utmost importance to me at the time. But it was something I noticed when I put it on the Pentium. It just went by so quick."

> *What's most impressive about the CD-ROM is that Jaffe did almost all the work herself, beginning to learn Macromedia Director only in early 1994 and finishing the title by March of this year. In addition, she financed the whole thing herself—no begging an advance from publishers—and is also handling the distribution.*

Clearly, this is a problem that all developers have to deal with, and there's no real elegant solution at this time. For developers with limited technical

continued on page 332

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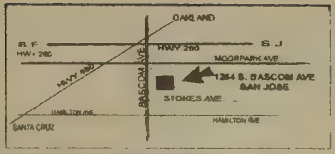

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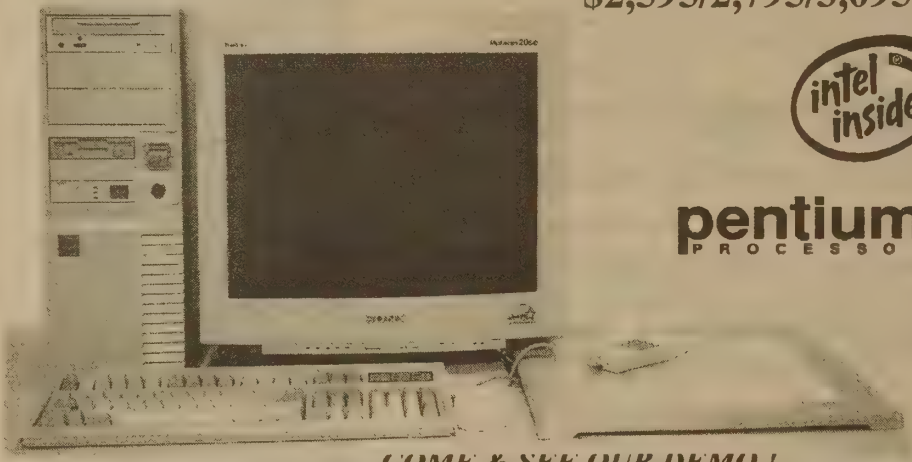

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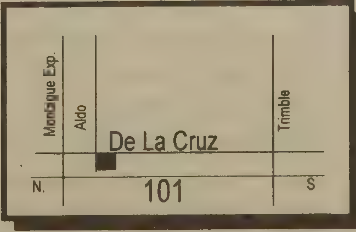

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Fresh Toast From NewTek:

What's New With Video Toaster 4.0

NewTek has gone back to the drawing board and totally revamped the Toaster software. The change was necessary to accommodate integration of NewTek's nonlinear editor, the Flyer.

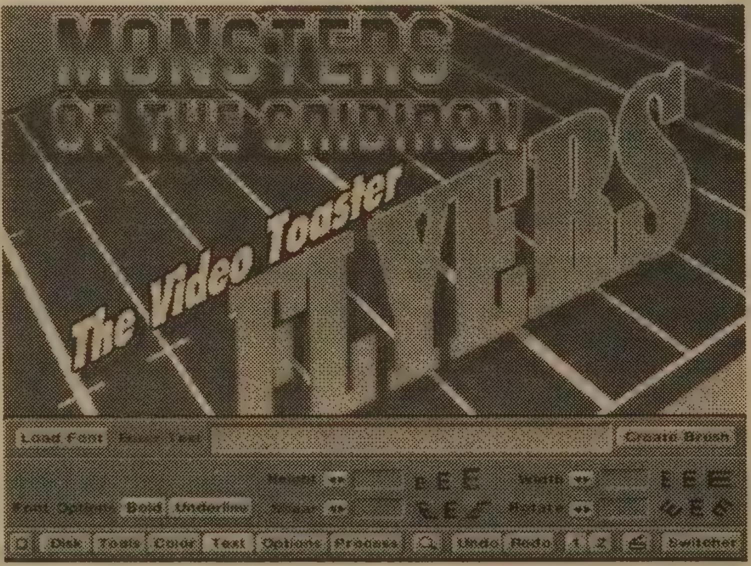
I'm actually reviewing the pre-release "3.9" Flyer software without a Flyer or manual. Not surprisingly, there were some hitches and crashes that should be worked out in the final version, which should be out as you read this; it was due for mid-July release. As of now, LightWave 3D is still at v3.5, but 4.0 should coincide with the final Toaster 4.0 release. (I've been told that this stuff wasn't meant to be run without a Flyer, but hey, for my readers, I'll chance it.)

PROGRAMMABLE SWITCHER

Previously, operating the Toaster was a real-time endeavor. Video source, Framestore images, effects, etc., all had to be initiated manually.

Now, although the ability to do live switching has been retained, the new software allows you to program the Toaster's activities. These programmed Projects can be saved and loaded independently.

The new interface is very object oriented and works somewhat like the Amiga Workbench in that you can drag icons from window to window. In fact, it is a true file-directory structure, since the icons ("croutons" in Toaster-lingo) represent actual files and directories. You navigate through them much as you would Workbench drawers. If you have ever used Oxxi's VideoStagePro or even Scala MM, you'll feel right at home.



Most icons are a thumbnail of what they represent. This is great for quickly identifying Framestores, CG Pages, etc. A nondescript default icon appears when no thumbnail image exists. These icon-image files are automatically generated when you save files from the Toaster, and most of the installed files come with them. I'm sure there will eventually be some easy way to generate them for a batch of existing files.

Effects are grouped into directories like Animals, Blinds, Dissolves, PagePeel, People, Wipes, etc. This allows you to find them much more quickly than trying to hunt through the old effect banks—a good thing too, since there are supposedly over one hundred new effects!

PROJECTS

A Project is created by dragging icons from the Files window to the Project window. These can be Effects, Framestores, Preview Anims, etc. Basically, you pick and choose what you want to use, and graphically place things in the order you want them executed. For example, you might start by dragging a CG Page to the

BY DOUGLAS J. NAKAKIHARA

Project window followed by a page-peel transition. These two icons might be followed by a Framestore.

The timing of each event is set by selecting the icon and clicking the Controls gadget. The available options vary depending on the type of icon. The playing order of the events can be changed by simply dragging the icons around. When you are satisfied, just click the Play gadget.

If a problem crops up with your project, you will be notified and the icon where the problem occurred will be selected. This is often a case where the video for an Effect is not long enough to complete the transition and the next Effect comes up before the last one is finished. You cannot double-up Effects, like doing a wipe while a dissolve is occurring.

SLIDESHOWS AND DEMO REELS

The new interface makes it a snap to set up an impressive slideshow of Framestores, CG Pages, and Preview animations while utilizing Toaster Effects for transitions. LightWave users on a budget could create a pretty cool demo reel of their animations even without a Flyer.

Of course you'll still be under the limitations of Preview anims, which haven't gone away, but the quality of the output would be fantastic!

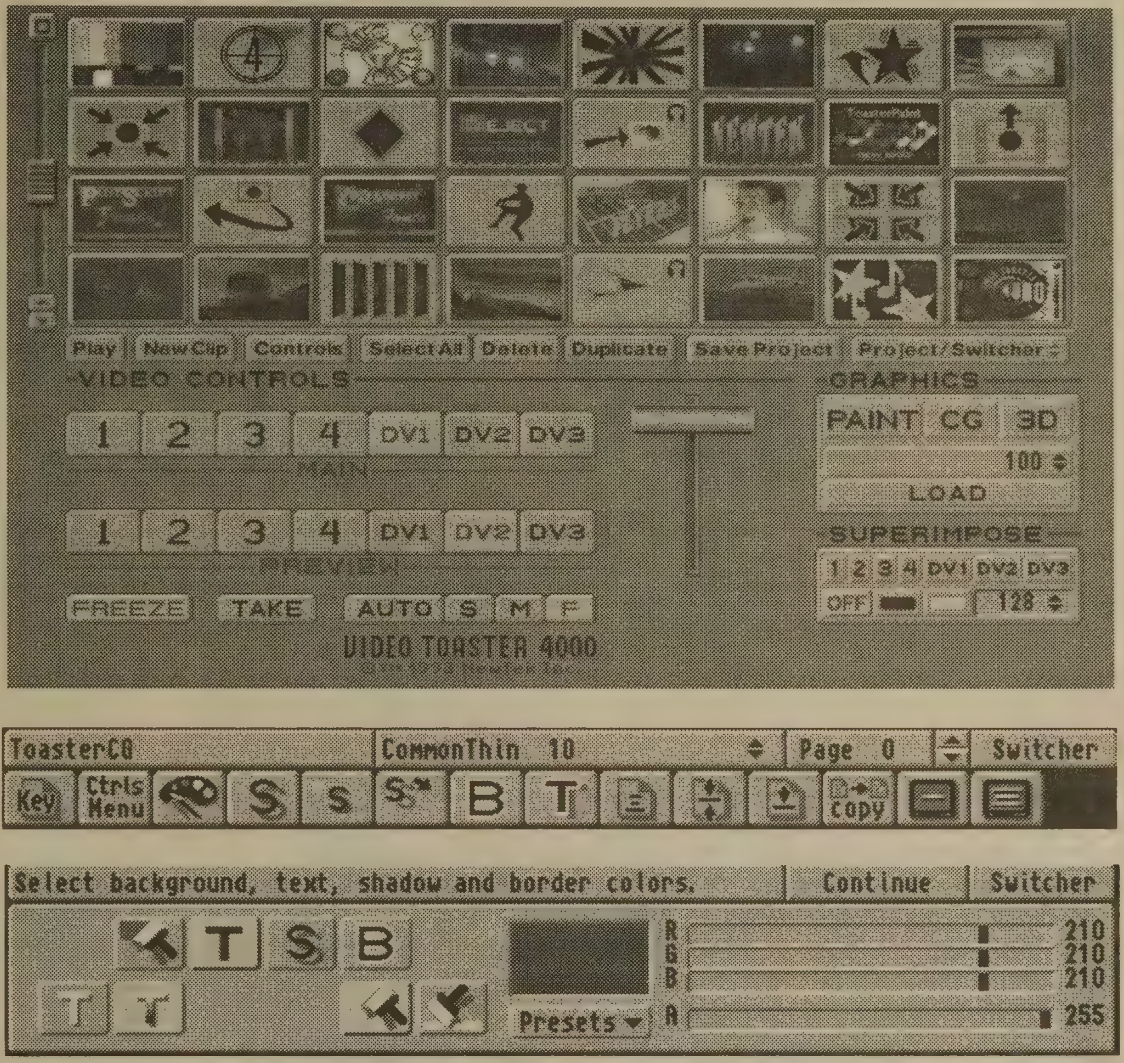
GOT LIVE IF YOU WANT IT

The Switcher can still be operated in real time, and pretty much works the same way it always has; however, you must first set up a Project that contains all of the Effects, Framestores, and other events you want to have access to.

This may cause old-timers some frustration, in that you can't just boot up and start working. It might help to set up a Project that contains all of your favorite Effects. This would give you a good starting point for future Projects and keep you from having to start from scratch every time.

Since everything is accessed from the Project window, you have more immediate access, and don't have to hunt around anymore. For example, just click on a Framestore icon and the image is loaded into one of the digital buffers. No more fumbling through the old pop-up file listing. Framestores can also be stored in multiple subdirectories. Of course, if your Project has a lot of stuff in it, you may have to use the scroll bar.

Using the Views gadget, you specify what is displayed on the main screen. You can have various combinations of the Project, Files, and Switcher windows. LightWave, ToasterPaint, ToasterCG, and ChromaFX are accessed from the Programs gadget.



Select background, text, shadow and border colors.

Gone are the pull-down menus—everything is button-driven.

TOASTERPAINT

ToasterPaint has been totally redone and it's about time, too.

Gone are the pull-down menus; everything is button-driven. The interface has the standard Toaster look, so ToasterPaint now feels like part of the team. But fear not! All of the previous version's functionality has been retained, so old-time users won't feel totally lost.

If you're using an A4000, you'll love the fact that ToasterPaint takes advantage of the AGA chipset using the HAM8 mode full-screen. With 256,000 available colors, it is visually very close to the actual video output.

The new Air Brush tool is very responsive and features beautifully feathered edges. Text handling is improved and you now have control over height, width, shear (slant), and rotation. Text can also be bold and/or an outline. ToasterCG fonts (Toaster, PostScript, etc.) are now supported; it appears that Amiga bitmap fonts are history. Unfortunately, using the text tools in this prerelease version of ToasterPaint sent my computer into la-la land, so I wasn't able to do much with the new features.

You can now freeze frames into either DV buffer from any of the four video inputs directly from ToasterPaint. Either buffer can be subsequently imported into ToasterPaint as before.

The new color palette bar consists of twenty-four color wells, a large current color well, sixteen grayscale wells, and a color range area. Colors can be adjusted using RGB values or an HSV color wheel.

You can also create 4- or 8-bit grayscale alpha

continued on page 334

Blue Screen VR

"Virtual Sets" For Live Actors

BY TONY REVEAUX

The building of interactive virtual reality environments is evolving, piece by piece, with elements from "traditional" film and television special effects and new computer graphics technologies. Analog and digital combinations of the blue screen process are providing "virtual visual glue" for desktop VR and location-based entertainment.

The blue screen process, called Chroma Key in television, and often using the Ultimatte studio standards, allows the producer to insert different backgrounds in a live action scene from photos, film, drawings, paintings, computer graphics, and even motion footage that may have originated in vastly different scales. By the use of blue and red filters in post production, or live on television, male and female mattes are "married" in the final image. This explains how the TV weatherperson, who gesticulates in front of a blank blue screen in the studio, can appear on the news pointing to animated thunderstorms on a map of Kansas.

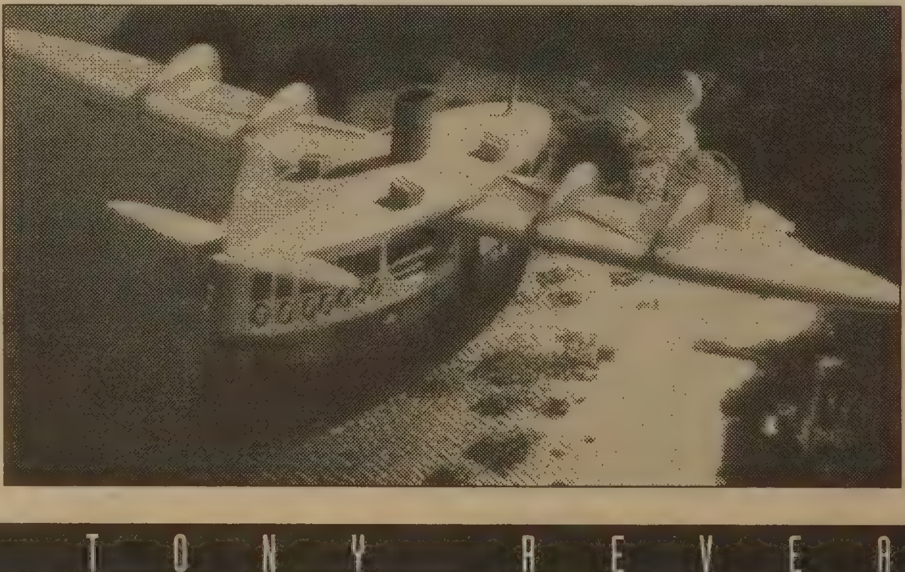
The blue screen principle is being carried on to support flexible and sophisticated digital multimedia production which is setting the stage for ever more virtual connections.

REALITY TRACKING: THE BLUE SCREEN MACHINE

ELECTROGIG's Reality Tracking system allows live actors to move freely in a 3-D modeled virtual environment or "virtual set" that can receive live video and even incorporate "vactors"—performance animation virtual actors and props—to interact with on-camera talent. It allows pans, tilts, and zooms without any drifting of alignment between foreground live action and multiple computer-generated backgrounds.

The "virtual set" may take up gigabytes on the hard disk, but it needs no backgrounds hung in the flies or flats warehoused in backstage bays, nor stagehands to set up and break down.

ELECTROGIG's core technology is 3-D animation modeling and rendering, and the Reality Tracking system has been designed to be open-ended and fit seamlessly into the environment that broadcasters are used to. Just about all the major 3-D animation and CAD packages can be utilized with the system. ELECTROGIG has configured the Reality Tracking package as a turnkey system driven by a Silicon Graphics Onyx RealityEngine 2 graphics super-



ELECTROGIG image "Boat-plane," created in GIG3DGO,® © 1995 Wooden & Filling.

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BLUE SCREEN VR *continued...*

computer, which carries a price tag of about $600,000. That same machine is also used by broadcasters for video servers, Video on Demand (VOD), and in graphics installations such as Discrete Logic's Flame.

The Lightscape Visualization System from Lightscape Technologies is also a key component of the Reality Tracking system. You can go from wireframe to flat shaded to very photorealistic rendered scenes. Its proprietary radiosity technique can calculate direct illumination and indirect, diffuse interreflections between surfaces. This gives the designer the ability to provide more realism on the set for "virtual" light sources, and to emulate the kinds of light scattering and shadow detail for a virtual prop or scenic element that the real thing would contribute to the scene. For SGIs, the Lightscape packages sell for $12–$15,000.

Says Chris Dierdorff, marketing product manager, "Our eyes are extremely sensitive to how the foreground moves in relation to the background, and can pick up even the most subtle differences. With the advent of computers, we're not only able to track the relative position of the image-taking camera itself, so we know its position in 3-D space, we're also able to use very fast graphics computers to put out a three-dimensional background in real time that is fairly believable. We mate these two worlds exactly, so as the real camera moves, the computer moves the virtual world in an identical orientation in six degrees of freedom"

TOWARD A WRAPAROUND VIRTUAL THEATER

Though the early adopters of ELECTROGIG's Reality Tracking are broadcasters, location-based entertainment, feature films, and game developers are beginning to use the systems. As computing power rises from the desktop to match the demands of tracking reality, real, native creativity will conjure up more variations on virtual worlds in all the media.

The next stage of blue screen VR that will fulfill the needs of acting and action out of the blue will be when images of the virtual set's artwork can be projected in the sound stage—even if only in wireframe. While the camera won't see the color-coded images, the actors will. They can play against the surfaces, objects and beings in scale and on location, so that their eyelines will match up with the axes of the actions in the final composites. Much less of their talent will be drained in conjuring up a wall or an alien and can be invested in accurately reacting to it.

Reality Tracking ™ virtual set.

ELECTROGIG's technology has not reached that point yet, but it has brought us much closer to the Virtual Thing than have any previous virtual sets. What awaits us in the years to come will be a blue screen sound stage version of The CAVE, the six-wall media room developed at the Electronic Visualizations Lab of the University of Illinois in Chicago. The same rise in technology that would support virtual media production will also bring us closer to fully immersive virtual worlds that we can explore with all our senses.

RESOURCES:

ELECTROGIG
50 Osgood Place, Suite 120
San Francisco, CA 94133
(415)956-8212
URL:*http://www.electrogig.com*
Random House, Inc.
201 East 50th St.
New York, NY 10022
(212)940-7394
SAMS Publishing
11711 North College Ave.
Carmel, IN 46032
Ziff-Davis Press
59093 Christie Ave.
Emeryville, CA 94608
(510)601-2000

PAPER VR

If you've been wondering about virtual reality and have been even more totally confused by watching too many episodes of the hysterically disorganized *VR 5* TV show, here are some books that will help bring your x/y/z axes in focus.

How Virtual Reality Works ($24.95) by Joshua Eddings and edited by Linda Jacobson is in the How It Works series from Ziff-Davis Press; it features a pictorial illustrative format suitable for all ages. In some ways, this book's conceptual and thematic diagrams and illustrations may serve as the most helpful to understand VR, since so much of this industry is still in the developmental stage. It covers a quick history of VR, hardware and software, professional applications, and recreational VR. The chapters on engaging the senses and degrees of experience really get to the core of VR, since these are the goals that are yet to be fully met.

Francis Hamit's *Virtual Reality and the Exploration of Cyberspace* (SAMS, $26.95) is a very thorough overview and guide to what VR is, and how to get hold of those parts that are grabbable today. It covers the major developers and developments of VR, and many applications, both theoretical and real-world. As a reference, it provides lists of many resources to use and learn more about VR. The book comes with a DOS floppy and a pair of 3-D glasses to view the demos of "Fly the Grand Canyon," SuperScape, and five Virtual Reality Studio demos. Plus, you get DModem, communications software for accessing DIASPAR, the Virtual Reality Network.

Entertainment in the Cyber Zone by Chris McGowan and Jim McCullaugh (Random House, $19.00) is an excellent guide to software that qualifies as multimedia entertainment. As well as reviews and sidebars, it has sections on game history, CD formats, expanded movies, and electronic books.

And speaking of cyber, here is the Source. *Cyber Source*, that is. Edited by Frederick E. Davis, this 420-page tome covers just about everything computer-wise that you'd be interested in knowing about or trying out. Alas, there is no index, but you'll info-surf through the massive sections titled Learning, Real World, Fun, Self, and Community, finding troves of candid reviews, essays, and spicy sidebars on hardware, software, and stuff. ■

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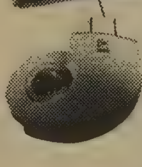

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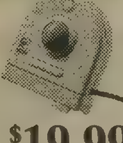

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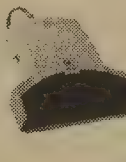

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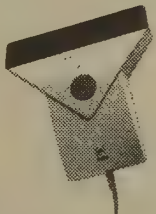

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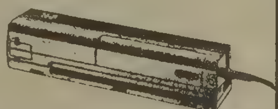

reg. $499 $279.99

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AudioMan

- Enhance your Windows applications with sound
- Add Spoken message or music
- Easy to install through parallel port
- Portable, battery operated
- Includes software
- For Windows PC's and Notebooks

reg. $109.99 $19.99

SoundMan Wave

- Wave Table synthesis
- 16-Bit CD-quality recording & playback
- SCSI Interface
- Includes Software
- Factory Refurbished

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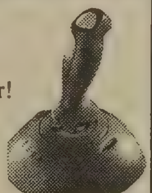
ENTERTAINMENT

Wing Man Joystick



- Hot New Model
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- Fly it meaner, harder and faster!
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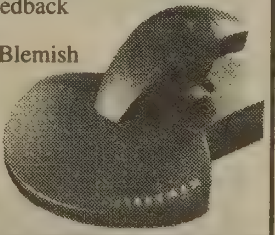

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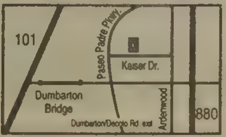

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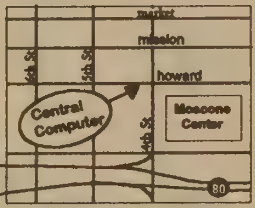

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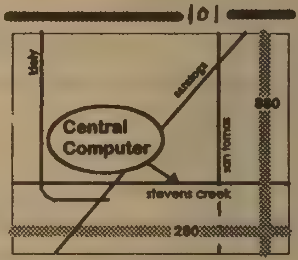

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4MB RAM Memory (1 of 72-pin, 70-ns Simm)
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Baby Tower Case w. 200W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Standard Technology 14" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

MICRONICS 486-DX2-66 ISA 2VLB	**$1039**
MICRONICS JX30WB 486 ISA VLB	**$1099**
AIR 486-DX2-66 ISA 3VLB	**$1049**

*** Multimedia Upgrade Options (please add):*
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Sony 2X + 16 bit IDE Sound Card + 4W Speakers ($175)

Central System # 3 : 486 Value Station

Intel 486-DX2-66 CPU
CPU Cooling Fan
8MB RAM (1 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
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Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Kelvin 64 VLB 1MB VGA Card
Viewsonic 15ES or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

AIR 486-DX2-66 ISA 3VLB	**$1449**
MICRONICS 486-DX2-66 2VLB	**$1439**

*** Multimedia Upgrade Options :*
Any 2X or 4X Multimedia Kit available

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Intel Pentium CPU
CPU Cooling Fan
8MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Kouwell I/O (2S 1P 1G)
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB Hard Drive
Kelvin 64 PCI 1MB VGA Card
Viewsonic 15ES 15" or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrade*

INTEL 586-90 / 100 PCI Triton	**$1799/$1889**
SUPER P54Ci 586-90 / 100 PCI	**$1759/$1849**
MICRONIC M54Pi 586-90 3PCI	**$1849**

*** Multimedia Upgrade Option (please add) :*
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MICRONIC M54PI 586-90 3PCI	**$1955**
INTEL 586-90 / 100 PCI Triton	**$1899/$1989**
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Conner or Maxtor 1.2GB IDE Hard Drive
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Mag DX15 15" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

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MICRONICS P54Hi 586-100 3PCI	**$2535**
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SB 16 MCD oem	84
SB 16 SCSI-2 oem / reg	109/167
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Sound Blaster AWE 32 w. ASP	245
SB Multimedia Home 4X Kit w. 24 Microsoft CDs	399
Sound Blaster Multimedia Office Kit	*(479)
Video Blaster MP-400 / Wave Blaster 2	245/165

CHINON

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DIAMOND

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5000 4 Speed Multimedia Kit w. 30 titles	379
7000 4 Speed Multimedia Kit w. 22 titles	379

MITSUMI

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NEC

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4 Speed, 150ms, 676Kb/s, SCSI Int	249

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- w. IDE Sound Card & Speakers	175
CSD-760S 4X SCSI w. Adaptec 1515 Kit	289
PRD-150 Portable 2X w. PCMCIA Kit	385

TEAC

CD55A 195ms, 4X ATAPi, Int	165

TOSHIBA

3601B 150ms, 600Kb/s, 4 Speed Int	288
XM-5302B 4 Speed IDE Int	***(159)**

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Monterey Multisound / Tropez Sound Card	329/225

OTHERS

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2940W Wide-SCSI PCI Kit w. wide int cable.	299
APA1460 Slim PCMCIA SCSI	229
ASW-EZ SCSI 3.1 for Dos & Windows	69
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T358K EPP Parallel to SCSI Adapter	179

BUSLOGIC

KT410A IDE Cache VLB	119
KT445C SCSI VLB w. Kit	199
KT542B SCSI-2 w. Kit	209
KT757C Fast SCSI-2 & Wide-SCSI EISA w. Kit	379
KT910A IDE Cache PCI w. Kit	179
KT946C SCSI PCI w. Kit (supports 8GB HD)	229

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DTC

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486-DX4-100	135

CYRIX

486 DX-33	119

INTEL

386 DX-33 / DX-40	39/39
486 DX-33	109
486 DX2-50 / DX2-66	135/139
486 DX4-100	189
586-60Mhz / 66MHz Pentium	239/269
586-75MHz / 586-90MHz Pentium	269/359
586-100MHz / 586-120MHz Pentium	449/699
586-133MHz Pentium	799

Math Co Processor :

INTEL

387 DX (for 16/ 20/ 25/ 33 MHz)	85
387 SX (for 16/ 20/ 25/ 33 MHz)	79

ULSI

83D87 - 40	35

OTHERS

Cooling Fan for 486 CPU	6.95
Cooling Fan for 586 Pentium CPU	9.95

5. DIGITIZER

SUMMASKETCH

III 12 x 12, 4 or 16 button	*(249)269
III 12 x 18, 4 or 16 button	495
- 2 button stylus for III	39
FX 12 x 12, w. 3-button Pressure Stylus	375

WACOM

Art Pad II 4x5, w. Erasing Ultra Pen for PC / MAC	145/149
Art Pad II (WD2-0405S) w. Fractal Dabbler	169
Art Z II 6x8, w. Erasing Ultra Pen for PC / MAC	315/319
Art Z II 12x12, w. Erasing Ultra Pen for PC / MAC	455/459
UP-201 Pressure Stylus	49.95

6. DRIVE

SALE!

FLOPPY DRIVES :

TEAC

1.2MB 5.25"	45
1.44MB 3.5" / w. frame / Black	35/39/45
Dual - 1.2MB & 1.44MB	85

HARD DRIVES :

CONNER

CFS-270A 270MB 14ms IDE	139
CFS-425A 420MB 14ms IDE 1" ht	149
CFS-540A 540MB 14ms 64k IDE 1" ht	*(165)
CFS-850A 850MB 15ms 64k IDE 1" ht	209
CFP-1060S 1.08GB 10ms 256k SCSI-2	379
CFS-1275A 1.2GB 12ms 64k IDE 1" ht	279
CFP-2105S 2.1GB 8.5ms 256k Fast-SCSI-2	709

FUJITSU (2 yr. warranty)

M2684TAU 540MB 12ms 256k IDE 1" ht	169
M2684SAU 540MB 12ms 256k SCSI 1" ht	205
M1606SAU 1GB 9ms 512k SCSI	***(395)**

KINGSTON

PCMCIA 260MB IDE	545

MAXTOR

MXT-7425AV 420MB 12ms 32k IDE	149
MXT-7540AV 540MB 14ms 64k IDE	***(165)**
MXT-7850A 850MB 12ms 32k IDE	209
MXT-71260A 1.2GB 12ms 256k IDE	289

MICROPOLIS

MC-4221 2.1GB 9ms 512k 1/2 ht	935
MC-1936 3.0GB 11ms 256k SCSI full ht	895
MC-1936AV 3.0GB Audio Visual	1145
MC-3243 4GB 8.5ms 512k 3.5" ht	1399

NEW MEDIA

PCMCIA 105MB IDE / PCMCIA 170MB IDE	419/449
PCMCIA 260MB IDE	589

QUANTUM

LPS-270S 270MB 12ms 128k SCSI	169
LT-540A 540MB 11ms 128k IDE	189
LT-540S 540MB 11ms 128k SCSI-2	*(189)
MV-540A 540MB 14ms 128k IDE	179
MV-540S 540MB 14ms 128k SCSI	199
LT-730A 730MB 11ms 128k IDE	229
LT-730S 730MB 11ms 128k SCSI	269
FB-1080A 1GB 12ms 128k SCSI-3	289
FB-1080S 1GB 12ms 128k SCSI-3	379
TR-840S 840MB 14ms 128k SCSI	289
Atlas XP-32150 2GB 8ms 1MB SCSI-2	***(815)**

SEAGATE (5 yr. warranty for 1GB+)

ST3491A 420MB 14ms 128k IDE	149
ST-3660A 540MB 14ms 128k IDE 1"ht.	***(165)**
ST-31220A 1.08GB 12ms 256k IDE	289
ST-31230N 1.05GB 9ms 512k SCSI-2	489
ST-32430N 2.14GB 9ms 512k Fast SCSI	869
ST-32550N 2.14GB 8ms 512k SCSI-2	995
ST-12550W 2.14GB Fast-wide SCSI	1225
ST-15230N 4.3GB 9ms 512k SCSI	1125
ST-410800N 9.0GB 11.5ms 1M SCSI	2745

TOSHIBA

PCMCIA 262MB IDE	485

WESTERN DIGITAL (3 yr. warranty)

WD-2540 540MB 12ms 128k IDE	189
WD-2850 850MB 10ms 128k IDE	225
WD-31200 1.2GB 11ms 128k IDE	***(319)**

REMOVABLE DRIVES :

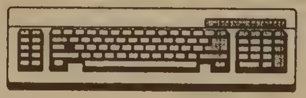
SYQUEST (MITAC)

105MB 3.5" w. cart., IDE host adapter	279
105MB 3.5" w. cart., printer port for PC, Ext.	369
105MB 3.5" w. cart., SCSI for Mac, Ext.	389
200MB 3.5" w. cart., SCSI Ext	479
270MB 3.5" w. cart., IDE Int oem	***(264)**
270MB 3.5" w. cartridge, IDE w. Kit, Int	435
270MB 3.5" Bare Drive, SCSI, Int oem	349
270MB 3.5" w. cartridge, SCSI, Ext	479
270MB 3.5" w. cart, printer port for PC, Ext.	479
105MB Cartridge / 270MB Cartridge	59/69
Syquest 270MB 3.5" w. cart, IDE w. Kit, Int	465
Syquest 270MB 3.5" w. cart, SCSI Ext	539

OTHERS

Impression CardDrive (2 slot PCMCIA)	185
Mounting Frame for 3.5" Hard / Floppy Drive	5/5
Removable Case for 3.5" HD IDE / SCSI	39/42

7. KEYBOARD



FOCUS

FK2001 101 Click	42
FK9000 129 Key Programmable	53

MICROSOFT

Natural Keyboard	89.95

NORTHGATE OMNI (5 yr. warranty)

101NI / 102	*(65)/*(65)
Ultra T / Ultra F.	*(79)/89

SIIG (5 yr. warranty)

Minitouch 81-key Click	45
Supertouch 101 Click	53
Wavetouch 101 Soft	39

OTHERS

Ancer 101 Key (black)	42
BTC 5100 Key Mini (80-key)	35
Keytronic 101	35
Maxi 101 / Maxi 124	35/53
Mitsumi 101	29
Spill -resistant 101 Key	19.50
Unikey Natural Ergonomic Keyboard	42

8. I/O CARD

KOUWELL

AT I/O (2S 1P) / AT I/O (2S 2P)	25/29
AT I/O (2S 1P 1G) / w. 16550 chips	25/39
Printer Card (1P)	15
Serial Card (2S High IRQ)	25

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	45

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	109

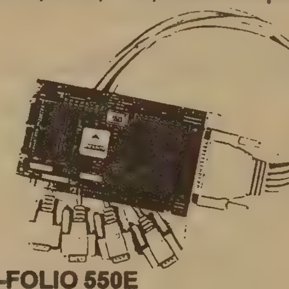
VITEX

AT I/O (2S 2P) w. 16550 chips	45

QUICKPATH

HIGH SPEED COMMUNICATION CARDS

FLEXPORT 42
- 4 16550 Serial Ports
- 2 Bi-Directional Parallel Ports
- Extended IRQ selection (3,4,5,7,9,10,11,12,14,15)
- 8 Selectable Address
- Extra Parallel Port Address Setting
- Windows, OS/2, Unix, Novell compatible



PORT-FOLIO 550E
- 13 Ports
- 4 16550 Serial Ports
- 4 Floppy Ports
- 2 Bi-Directional Parallel Ports
- 2 IDE Ports
- 1 Game Port
- Extended IRQ Selection (3,4,5,7,9,10,11,12,14,15)
- Windows, OS/2, Unix, Novell compatible

MOST FLEXIBLE 16550 CARDS

9. MEMORY

DRAM

256k x 4 - 70ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns	(1MB)	41/40/39
4 x 9 - 60ns / 70ns	(4MB)	165/159
16 x 9 - 70ns	(16MB)	609
256k x 9 - 70ns		12
1 x 36 - 60ns / 70ns	(4MB , 72 pin)	169/165
2 x 36 - 60ns / 70ns	(8MB , 72 pin)	335/329
4 x 36 - 60ns / 70ns	(16MB, 72 pin)	595/589
8 x 36 - 60ns	(32MB, 72 pin)	1199

SIPP

1MB x 9 - 70ns (3 chips)	42

OTHERS

Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	***call***

10. MODEM & FAX

ASCEND

ISDN Pipeline 50 Single	779

BOCA

14.4 Fax Int / Ext	*(89/105)
14.4 Pocket Fax	169
14.4 VSP Sound Express Fax Modem	*(155)
28.8 Fax Modem v.34 Int / Ext	***(165/199)**

COMPUTER PERIPHERAL

14.4 Fax Modem Voice	89

GVC (Maxtech)

14.4 Fax Int / Ext	64/89
14.4 Fax Modem Voice Int	69
PCMCIA 9624 Fax	99

HAYES

Accura 144 + Fax Int / Ext	***(87/105)**
Accura 28.8/14.4 v.34 Modem Ext	229
ESP Communication : Single / Dual port	85/125
Optima 288 v.34 Fax Int / Ext	369/419

MEGAHERTZ

PCMCIA XJ1144 Fax (MNP5)	***(179)**
PCMCIA XJ2144 Fax (MNP10)	***(209)**
PCMCIA CC3288 Fax / XJ2288 Fax	***(335/315)**

MICROCOM

Deskporte 28.8S V.34 Fax Ext	189
Deskporte EP 28.8 V.34 Ext	***(229)**

PRACTICAL PERIPHERALS

PM144FX144 Int / Mini Tower Ext	***(79/99)**
28.8 v.34 Fax, 230K DTE Int / Ext	269/285
28.8 v.34 Ext (PC288LCD)	359
28.8 v.34 Int (PM288) / Mini Tower	***(195/215)**

PURE DATA

Satisfaxion 400 144/144 Fax Int	299
Satisfaxion 400e 144/96 Fax Ext	335

SHIVA

Net modem/E Ethernet BNC/TP	1475

US ROBOTICS

Courier v.34 28.8/14.4 Fax Int / Ext	395/425
Sportster 144/144 Fax MNP5 Int / Ext	99/119
Sportster 144/144 for Mac Ext	149
Sportster v.34 28.8/14.4 Fax Int / Ext	189/199
Sportster v.34 28.8/14.4 Fax for MAC	259
Sportster PCMCIA Fax 144 / 288	185/365
Sportster Si 144 Fax Int	***(65)**
Sportster Vi 144 Fax w. Personal Voice Mail Int	115
Sportster Vi 288 Fax w. Personal Voice Mail Int	215

ZOOM (7 yr. warranty)

144/144 Fax Modem & Voice Int / Ext	***(105/159)**
28.8 V.34 14.4 Fax Int / Ext	156/199

ZY-XEL

U1496E 16.8 Voice 14.4 Fax, LED Ext	299

11. MONITOR

SALE!

ARCUS

14" SVGA Mono	109

EYE Q

SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	105

GVC

M1566L 1280 x 1024 .28 NI	335

HITACHI

CM1586MU 15" Flat 1280 x 1024 .28 NI	369
CM1786 17" 1280 x 1024 .28 NI	679
CM2096 20" 1600 x 1200 .31	1265

IIYAMA (Idek)

MF-8115 15" 1280 x 1024 .28	415
MF-8617A 17" 1280 x 1024 .26 NI	***(749)**
MF-8621 21" 1600 x 1200 .26	2235
MT-9121 21" 1600 x 1200 .30	1895

KFC

CT1428A 14" 1024 x 768 .28 NI	249
CA1507 15" Flat 1280 x 1024 .28 NI LED	375
CA1508 15" Flat 1280 x 1024 .28 NI LCD	389
CA1718 17" Flat 1280 x 1024 .26	745

MAG (auto switch power)

DX15FE 15" 1280 x 1024 .28 NI (no LED)	*(359)375
DX17F 17" 1280 x 1024 .26 NI (no LED)	689
MXP17F 17" Flat 1600 x 1280 .26 NI	***(849)**

MITAC (3 yr. warranty)

M1564 15" 1280 x 1024 .28 NI	325
M1775 17" 1280 x 1024 .28 NI	599

NANAO

F2.15 15" Flat 1024 x 768 .28 NI	545
F2.17 17" 1280 x 1024 .28 NI	875
F2.17EX 17" 1600 x 1200 .26 NI	959
T2.17 17" 1280 x 1024 .25 NI	1285
T2.17TS 17" 1280 x 1024 .25, Diamondtron	1029
T2.20 20" 1600 x 1280 .30 NI	1955

NEC

XV14 14" 1024 x 768 .28	335
XE15 15" 1024 x 768 .28	579
XV15 15" 1024 x 768 .28	469
XE17 17" 1024 x 768 .28 NI	985
XP17 17" 1280 x 1024 .28 NI	1069
XV17 17" 1024 x 768 .28 NI	***(749)**
6FGp 21" 1280 x 1024 NI (re-furbished)	1699
XE21 21" 1280 x 1024 .28 NI	1799
XP21 21" 1600 x 1200 .28 NI	2159

NOKIA

449E 15" 1280 x 1024 .28 NI	*(425)499
447L 17" 1024 x 768 .28 NI	749
447X-058 17" 1600 x 1280 .25 NI	1029
447X 17" 1600 x 1280 .25 NI TCO	1175
445X 21" 1600 x 1280 .26 TCO	2465

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	***(249)**
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	399
4000TC 17" 1280 x 1024 .25 Trinitron NI	799

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	*(689)749

PROTON

PM1561A 15" 1280 x 1024 w. speakers built-in	345

SONY

1425 14" 1024 x 768 .25	***(299)**
15SF 15" 1280 x 1024 .25 NI	489
17SF 17" 1280 x 1024 .25	***(859)**
20SE 20" 1280 x 1024 .30 NI	1885

STANDARD TECHNOLOGIES

428-VESA 14" 1280 x 1024 .28 NI	249

TATUNG

20" Analog 1280 x 1024 .31	755

IEWMAGIC

10" SVGA Mono Paper White 1024 x 768	125

IEWSONIC

14E 14" 1024 x 768 .28 NI	289
15ES 15" 1024 x 768 .28 NI, MacII	365
15G 15" Flat 1280 x 1024 .28 NI	419
15GA 15" 1280 x 1024 .28 NI, built-in speakers	509
17 17" 1600 x 1280 .27 NI, MacII	849
17GA 17" 1280 x 1024 .27 NI, plug & play	829
17GS 17" 1280 x 1024 .27 NI	759
20PS 20" 1600 x 1280 .28 NI, MacII	1429
21PS 21" 1600 x 1280 .26 NI, MacII	1649

12. MOTHERBOARD

IR (w/o cpu)

486MI : 486-DX2-66 256k, 3VLB, built-in AT I/O	169
486EI : 486-DX2-66 / DX4-100 256k, EISA, 3VLB	329

SUS (w/o cpu)

486-DX2-66 256k VLB	139
486-DX2-66 256k PCI, built-in IDE+SCSI I/O	269
P54TP4 586-90 256k PCI (Triton)	279
P55TP4XE 586-120 256k PCI, w. Burst SRAM	369
586-90 / 100 256k PCI EISA, dual processor	639

BM (Opal)

486SLC-66 VLB 64k w. CPU & Math Proc	165

NTEL (w/o cpu)

586-100MHz 256k PCI, built-in IDE I/O	255
586-90 / 100 256k ZP PCI, Trition, built-in IDE I/O	269
Endeavor 586-120MHz PCI, Triton w/ Burst SRAM cache 256k	449

YNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC, 30-pin	135
486-DX2-66 / DX4-100 256k 3VLB	145
486-DX4-100 256k PCI VLB, 72-pin	159

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	79
486-33 / DX2-66 256k VLB	169
JX3WB 486-DX2-66 256k VLB w. write-back cache	239
486-33 / DX2-66 256k EISA-3 / w. VLB	285/299
M54PI 586-90 w. IDE I/O (Neptune)	325
M54Hi 586-90 / 100 256k, Triton, built-in IDE I/O	359

SHUTTLE (w/o cpu)

486-DX2-66 256k 3VLB slots, Green PC	135
486-DX2-66 256k EISA 3VLB slots	239

SUPER (w/o cpu)

P54CT 586-90 / 133 256k PCI VLB	239
P54Ci 586-90 / 133 256k PCI, built-in IDE	239
P55CMA 586-180MHz 256k PCI, Triton, built-in IDE I/O	315
P55CWA 586-180MHz 256k PCI, Triton	269
P55CMS 586-90 / 180 PCI w. Burst SRAM 256k	365
- w. Burst SRAM 512k	525

TIGER V

586-90MHz 256k PCI	209

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	21.50
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	115
Expert Serial & Trackball 4.0	95
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless II	85
First Serial	31
Fotoman Plus Camera for PC & PS/2	549
Mouseman Bus / PG15 Bus oem	64/45
Mouseman Serial	45
Serial Combo PC & PS/2 oem / reg	32/45
Trackman II / Trackman Portable	75/49
Wingman Standard / Extreme	29.95/47

MICROSOFT

Bus 2.0 400dpi w. Bus Card oem / reg	65/79
Home Serial 1.0	39.95
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem : gray / white	29/35

MOUSE SYSTEMS

Altes Mouse	9.95
Cobra (joystick)	9.95
Mouse! Serial w. Pad	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	45
Serial Bus Card (9IRQs)	29

JOYSTICK :

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	135
Flight Control System MK II	69
- w. Falcon / w. US Navy Fighters	79/89
Flight Control System Pro	119
Formula T1 / w. Indy Car	125/139
Rudder Control	118
Weapon Control MKII	109
UPROM	29.95
XL Action	35

OTHERS

Color Mickey Mouse Pad	5.99
Star Trek Mouse Pad / Star Wars Pad	7.99/7.99
Walt Disney Mouse Pad	4.99

14. NETWORK

SALE!

3COM

3C503 Etherlink II 16 bit Coax / TP	*(149/158)
3C509B Etherlink III Coax oem / reg	*(80/106)
- 5 Pack oem / reg	*(400/466)
3C509B Etherlink III TPO (RJ45 only) oem	*(67.50)
- 5 Pack oem / reg	*(335/404)
3C509B Etherlink III TP+AUI oem / reg	*(76.50/104)
- 5 Pack oem / reg	*(375/449)
3C509B Etherlink III Combo oem / reg	*(89/116)
- 5 Pack oem / reg	*(445/503)
3C579 Etherlink III EISA Coax / TP	*(205/206)
3C589 PCMCIA TP / Combo	*(152/194)
3C590 PCI TPO oem / reg	*(104/122)
- 5-Pack	*(515)
3C590 PCI Combo	*(165)
3C595-TX PCI 10/100 TP	*(210)
3C16170 Link Builder (12TP)	*(310)
3C16180 Link Builder (9TP + BNC)	*(175)

ADDTRON

HUB: UTP8/L (8TP +BNC + AUI)	*(125)
HUB: UTP16/L (16TP + BNC + AUI)	*(239)
Pocket Adapter BNC	*(99)
Transceivers: AUI–BNC / AUI–TP	*(33/33)

ALLIED TELESIS (CentreCOM)

Transceivers: MX10 (AUI - BNC)	*(31)
Transceivers: 210T (AUI - TP)	*(31)

ARTISOFT (Lantastic)

Corstream Server 5-user (8340)	*(499)
- upgrade to dedicated server	59
HUB: 8 Port (8TP + BNC)	*(170)
HUB: 12 Port (12TP + BNC)	*(203)
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit Coax 2-user	*(235)
Lantastic 6.0 Add On NR-SI 2000C	115
Lantastic 6.0 Add On NR-SI 2000T	*(119)
Lantastic 6.0 for single / 5 / 10-user	79/339/599
- upgrade for single / 5 / 10-user	39/99/149
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
Lantastic PowerSuite :	
- 1 / 5 / 10 / 25-user	149/599/1075/2295
- conversion for 1 / 5 / 10-user	89/345/595
NR-SI 2000C Coax / 5 pk / 10 pk	*(71/338/617)
NR-SI 2000T TP / 5 pk / 10 pk	*(75/339/619)
NR-SI 2000A Combo	*(89)

ASANTE (for Mac & PC)

10T HUB 8 Port (8TP + 1BNC)	*(145)
10T HUB 12 Port (12TP + 1BNC + 1AUI)	*(295)
FriendlyNet with BNC / TP Adapter	59/55

BOCA

HUB : 8 Port TP only / 16 Port TP only	*(125/242)
LAN Card : ISA TP / ISA Combo	*(53/62)
LAN Card : VLB TP	*(67.50)
PCI 32 bit Ethernet Combo	*(80)
PCMCIA 10BT Ethernet	*(152)

CASTELLE

JetPress MIO TP (network printer server)	389
JetPress XIO Coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin Coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

CHEYENNE

Arcserve for WinNT (NT-ASIO)	*(495)

CNet (Advanced Network)

200E+ Coax / 600E+ TP	*(35/31)
650E+ Jumperless Combo	*(39)
3270 Emulation for PC / for PS/2	175/195
4020ERP 2 Port Repeater Coax	*(179)
5250 Emulation for PC / for PS/2	199/235
8000TPC HUB: 12 Port Stackable	299
8800TPC HUB: (8TP + BNC)	*(99)
8816TPC HUB: (16TP + BNC)	*(225)
8900TPC 12 Port SMNP Slave HUB	465
8910TPC 12 Port SMNP Master HUB	775
Personal Netware 2-user Coax / TP	*(103.50/103.50)
Personal Netware single-user Combo	*(59)

COGENT

EM100 PCI Fast-TX, 32 bit bus mastering	*(207)
EM400 PCI Quarlet Fast (4UTP)	*(985)
EM525 Ethernet 16 Combo	*(69)
EM595TP Ethernet PCMCIA UTP	*(179)
EM932 EISA 32 bit Coax / TP	*(214/215)
EM960 32 PCI Full Duplex TP / Combo	*(122/143)
EM964TP 32 PCI 4-Port Full Duplex TP	*(445)

DANPEX

ArcNet & Token Ring products	call
5 Port Mini HUB (6TP)	89
1616i SNMP Intelligent 16port Hub	635
1616M SNMP Manageable 16port Hub	395
6200P2 PCMCIA BNC+TP	115
7000P3 32bit VLB Combo	*(71)
9400P3 32bit PCI Combo	*(76.50)
ET-510 UTP to AUI Translator	107
ET-590 UTP to BNC Translator	109
FE-1000TX ISA 100BaseTX	*(145)
FE-1400TX PCI 100BaseTX	*(149)
PrintMate PM-NW (for Netware)	269
PrintMate PM-TCP (for SUN, UNIX)	279

HP (Hewlett Packard)

Advanced Stack 10BaseT 8 Port	*(245)
Advanced Stack 12 Port HUB	599
- with SMNP	895
Advanced Stack 24 Port HUB	999
- with SMNP	1329
Jet Direct J2550A TP	315
Jet Direct J2552A Combo	375
Jet DirectEX J2382B for HP5P	349

IBM

Ether 16 Coax / TP / Combo	*(63/63/72)

INTEL

EtherExpress 32 Flash EISA Combo	*(206)
EtherExpress PRO/100 PILA 8465 PCI TP	*(195)
EtherExpress Pro 8/16 bit cards :	
- PCLA 8200 BNC + AUI + TP	*(116)
- PCLA 8200 5 pack	*(503)
- PCLA 8210 BNC + TP oem / reg	*(79/104)
- PCLA 8210 5 pack	*(449)
- PCLA 8220 TP oem / reg	*(66.50/99)
- PCLA 8220 5 pack	*(422)
- PCLA 8205 Flash BNC+AUI+TP	*(125)
- PCLA 8205 5 pack	*(539)
- PCLA 8215 Flash BNC + TP / 5 pk	*(112.50/494)
- PCLA 8225 Flash TP / 5 pk	*(107/449)
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
MCLA 8120 MCA TP	175
Netport II Thin & Thick	395
Netport II 10BT	399
Netport Express XL	465
NetSatisfaxtion 3.01 for Novell 25-user	755

LANPRO

2000RC16 bit BNC / 2000JT 16 bit TP	*(35/31)
2000RAL 16 bit Combo	*(39)
EP3020A Pocket Combo	*(103.50)
HUB : 8 Port (8TP + BNC)	*(125)
HUB : 16 Port (17TP + BNC + AUI)	*(229)
Personal Netware Coax Starter Kit	139

MEGAHERTZ

EM1144T PCMCIA Ethernet TP & 14.4 Modem	355
XJ10BT PCMCIA Ethernet TP	*(149)
XJ10BC PCMCIA Ethernet Combo	*(175)

MICRODYNE

NE2000+ Coax / 5 pack	*(79/349)
NE2000+ TP / 5 pack	*(75/329)
NE2000+ Combo / 5 pack	*(85/399)
NE3200 EISA Coax / TP	*(405/405)
NE3210 EISA 32 bit Combo	*(170)
NE5500 32 bit PCI	*(119)
Synchronous .35 WAN Adapter / .35+	450/869

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ Coax / 5 pack	*(49/339)
InfoMover NE2000+ TP / 5 pack	*(65/299)
InfoMover NE2000+ Combo / 5 pack	*(59/399)
InfoMover NE4100 PCMCIA Coax / TP	*(158/159)

NETWORTH

100 Base TX 8 Port HUB	1375

NOVELL

Dos 7 (w. Personal Netware) oem / reg	45/55
Lan Workplace 5.0 single / 10-user	295/1295
Netware 3.12	
- 5 / 10 / 25-user oem	*(495/999/1495)
- 5 / 10 / 25-user reg	*(595/1365/2065)
Netware 4.1	
- 5 / 10 / 25-user oem	*(525/1035/1545)
- 5 / 10 / 25-user reg	*(625/1395/2095)
- 50 / 100-user oem	1795/2595
- 50 / 100 / 250-user reg	3195/4395/7495
Netware Connect 2 Ports / 8 / 32	415/1445/3895
Netware NFS v1.2C	3150
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.01 - CD version	319
Unixware SDK v2.0 - CD version	105

PALINDROME

Network Archivist NLM 3.1A	*(595)

SMC

8013 Plus Elite 16 Combo / 6 pack	*(125/698)
Elite Ultra 16 Coax / 6-Pack	*(98/404)
Elite Ultra 16 TP / 6-Pack	*(97/359)
Elite Ultra 16 Combo / 6-Pack	*(107/449)
Elite Ultra 32 EISA Combo	*(194)
Ether EZ Coax oem / reg	*(75/103)
Ether EZ TP oem / reg	*(65/99)
Ether EZ Combo oem / reg	*(80/107)
Etherpower PCI : TP / Combo	*(157.50/189)
Etherpower PCI 10/100	*(197)
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB: 3212TC (12TP + BNC + AUI)	369
Tiger Switch XE 24 Port	6895

XIRCOM

PCMCIA CE2-10BT TP	*(159)
PCMCIA CE2-10BC Combo	*(209)
PE3-10B2 Pocket Adapter Coax	*(255)
PE3-10BT Pocket Adapter TP	*(259)
PE3-10BC Pocket Adapter Combo	*(265)

CABLES & ACCESSORIES	***call***

15. NOTEBOOK

TOSHIBA

T1960CS 486-DX2-50, 4MB RAM, 200MB HD, 1.44BM FD, Dual Scan Color	1999
T1960CT 486-DX2-50, 4MB RAM, 200MB HD, 1.44MB FD, Active Color	2099
T1960CT 486-DX2-50, 4MB RAM, 320MB HD, 1.44MB FD, Active Color	2259
T3600CT 486-DX2-50 8MB RAM, 500MB HD, 1.44MB FD, Acitve Color	3399
T4700CT 486-DX2-50, 8MB RAM, 200MB HD, 1.44MB FD, Active Color	2999
T4700CT 486-DX2-50, 8MB RAM, 320MB HD, 1.44MB FD, Active Color	3159

OTHERS

9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), 128k, VLB, removable HD, built-in speaker & microphone :

- 486-DX2-66, 340MB (DSTN)	1695
- 486-DX2-66, 340MB (TFT)	2155
- 486-DX4-100, 340MB (DSTN)	1795
- 486-DX4-100, 340MB (TFT)	2255

16. POWER SUPPLY

AMERICAN POWER CONVERSION

APC-600 Smart-UPS (386, 486 FS)	359
APC-900 Smart-UPS (386, 486, FS & WS)	515
APC-280 Back-UPS (200W)	108
APC-400 Back-UPS (300W)	159
APC-450 Back-UPS (325W)	199
APC-600 Back-UPS (425W)	269
APC-900 Back-UPS (650W)	375
Back-UPS Pro APC-280	155
Back-UPS Pro APC-420	225
Back-UPS Pro APC-650	295
SU-450 Smart-UPS (486, 586 WS)	289
SU-700 Smart-UPS (486, 586 FS)	359
SU-1000 Smart-UPS (486, 586, FS & WS)	515
SU-1400 Smart-UPS (multiple FS & WS)	639
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69

PC POWER COOLING

CPUcool for 486 or 586-90/100	19.95
Silencer Slim 205	99
Standard 230	
- for Desktop / Full Tower	85/85
Silencer 270	
- for Slim (baby or mid tower)	135
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	139
- for Desktop / Full Tower	169/165
Turbo Cool 400	
- for Slim / Full Tower	*(199/199)
Turbo Cool 450 for Full Tower (3.3 volt)	*(325)
Twinpower 900 (redundant)	925

TRIPP LITE

Isobar / Isotel	call

17. PRINTER / PLOTTER

BROTHER

HJ-400 Desktop Ink Jet for PC or Mac	*(249)
HL-630 Laser 6ppm	399
HL-641 6ppm, 1MB RAM	449
HL-645	459
HL655M for PC & MAC, 2MB RAM	599

CANON

BJ-200EX Bubble Jet, 360x720dpi	239
BJC-600E Ink Jet, Color, Par. 720dpi	479
BJC-4000 Ink Jet, Color, 360x720dpi	359

CITIZEN

GSX-220 24 pin	179
GSX-230 Fonts & Quiet	219
GSX-240 Scalable Fonts & Quiet	285
GSX-345 24 pin, 132 column	365
Projet II Ink Jet	269

DEC (Digital Equipment)

DecLaser 5100 w. 6MB	1125
DecWriter 500i / color upgrade	285/46

EPSON

Stylus Color Inkjet 720dpi	539

*(price) .... SALE PRICE

oem .... $ bundled with hardware only

HP (Hewlett Packard w. toner)

Color Laser Jet	5535
Desk Jet 540	*(249)289
Desk Jet 660C / 850C	459/519
Desk Jet 1200C PC, Mac	999
Desk Jet 1200C Postscript PC, Mac	1595
Ink Jet Plotter Color C3190A	2395
Laser Jet 4+ / 4M+	1399/1899
Laser Jet 4L / 4ML	*(509)/985
Laser Jet 5P / 5MP	*(895)/1099
Laser Jet 4Si / 4SiMX	2875/3995
Laser Jet 4V / 4MV	1895/2695
Office Jet (printer-fax-copier) 3-in-1	759
Accessories :	
- Color Kit for 540	49
- Duplex C2061A for 4Si or 4SiMX	495
- Envelope Power Feeder 75 Sheet (HP4)	279
- Legal, Letter or A4 250 Sheet Tray (HP4)	99
- Legal, Letter or A4 500 Sheet Tray (HP4)	109
- Optional 500 Sheet legal Letter A4 (HP4)	279
- Postscript C2013A for 4Si	575
- Toner for II, III	84
- Toner for IIP, IIP+, IIIP	76
- Toner for 4 / 4L or 4P	109/69
- Toner for 4Si / 4V	135/149

LASER MASTER

Winjet 1200 (postscript for HP4)	*(549)
Winjet 1200+ (postscript for HP4+)	*(599)

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(745)

OKIDATA

ML184T 9 pin, Par	239
ML320 9 pin, Epson compatible	335
ML380 24 pin, Epson compatible	245
ML590 24-wire	439
OL400E Laser	*(375)
OL410E Laser 4ppm, 600ppi	*(499)
OL410E/PS Laser Postscript	*(775)

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	929
ProTracer II-GL2 w. HP-GL2 & 2MB	1299
Accessories :	
- HP-GAL Emulation Card	375
- Ink Cartridges	19.50
- Postscript Emulation Card	375
- Sheet Feeder I / II	135/115

PANASONIC

1150 9 pin, 55dBA	139
2023 24 pin, Quiet	185
2123 24 pin, 43.5dBA, Color capability	239
2130 Quiet Dot Matrix	(after rebate, 169)199
2135 Quiet Dot, Color	(after rebate, 205)255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3624 24 pin, Quiet, 46.5dBA	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)
4430 Laser 5ppm, 1MB	665
4400 Led Page	(after rebate, 399)449
4440 Laser 10ppm	995
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm	(after rebate, 499)599
KXP-6100 600dpi 6ppm	399
SP-100 Multi-function printer	769
Accessories for 4410, 4420, 4430. 4400 4440, 4450 4450I, 4455, 5400	***call***

SEIKO

Smart Label Printer Plus / Pro	145/245
- Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

18. SCANNER

DELRINA

WinFax Pro Scanner	*(299)

HP (flatbed)

ScanJet IIIC Color & Gray Scale w. Kit	935
- Auto Document Feeder	475
- Transparency	635
ScanJet IIIP Gray Scale w. Kit	509

INFO

SF3GS Gray Scale 300 dpi w. OCR	*(199)
SF12C Color 24 bit 1200 dpi w. OCR	349
- w. Auto Document Feeder (SF6CD)	539

LOGITECH (hand)

Scanman Easy Touch w. OCR	169
Scanman 256 / w. Omni Page OCR	135/155
Scanman Color w. Omni Page OCR	*(195)
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	549
Scan Maker IIHR 600 dpi w. Photoshop & OCR	1050
Scan Maker IIHR 600 dpi w. Picture Publisher	825
Scan Maker IISPX 300 x 600 dpi	875
Scan Maker III	2495

VISIONEER

PaperPort + OCR for Win	355

19. TAPE BACKUP

COLORADO

DJ-35C Jumbo 350 340MB Int	139
DJ-25C Jumbo 700 680MB Int	195
DJ-50C Jumbo 1400 1.3GB Int	299
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095
Tracker 350MB (printer port)	279
- upgrade fr 250MB to 350MB	39.95
Tracker 680MB (printer port)	335

CONNER

CNR-4320RT 2GB Int	745
CNR-4350XT 2GB Ext	985
Tape Stor w.cartridge Int 420MB / 850MB	139/209
Tape Stor 850MB w. cart. Ext (printer port)	359

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/*(619)
FS1G (2501 + Control Kit) Int / Ext	675/*(799)
EXB-4200 4mm Dat. 2GB Int / Ext	799/975
EXB-8205XL 8mm Dat. 3.5 - 7GB Int / Ext	1275/1499
EXB-8505XL 8mm Dat. 7 - 14GB Int / Ext	19852275

HEWLETT PACKARD

35470 4mm Dat. 2-4GB SCSI Int	725
35480 4mm Dat. 4-8GB SCSI Int	835
C1533 4mm Dat. 8-16GB SCSI Int	999
T1000 850MB w. Controller Int	195
HP Mounting Frame to 5.25"	27

20. VGA CARD

ATI

Graphics Xpression 2MB PCI / VLB	209/209
Graphics Ultra Plus 2 DRAM w. mouse	199
Graphics Pro Turbo 2MB PCI / VLB	329/329
Graphics Pro Turbo 4MB PCI / VLB	499/499
Win Turbo 64 2MB PCI / VLB	289/289

DIAMOND

Stealth 32 2MB PCI	165
Stealth 64 2MB DRAM PCI / VLB	199/199
Stealth Video 64 2MB VRAM PCI / VLB	289/289
- 2MB upgrade	175
Stealth Video 64 4MB VRAM PCI / VLB	469/469
Viper Pro VRAM 2MB PCI / VLB	365/365

MATROX

IMP Plus 1600 x 1200, 2MB PCI	349
IMP Plus 220 2MB PCI	449
Millenium PCI 2MB / 4MB	349/479

MEDIA VISION

ProGraphics 1024 VL 256 Color 1MB	*(159)

NUMBER NINE

FX Motion 330 DRAM 2MB PCI	189
FX Motion 771 VRAM PCI 2MB oem / reg	269/299
FX Motion 771 VRAM PCI 4MB	449
GXe Level 12 VRAM 3MB VLB	299
GXe-64 Pro VRAM 4MB VLB	489
Imagine 128 4MB PCI	849
Imagine 128 1600 4MB PCI	1129

ORCHID

Fahrenheit 64 1MB PCI / VLB	149/149
Kelvin 64 Windows Accel. 1MB PCI / ISA	139/139
Kelvin 64 Windows Accelerator 1MB VLB	139
Kelvin 64 Windows Accel. 2MB PCI / VLB	189/189

SPIDER

Tarantula 2MB VRAM VLB / PCI	265/265
Tarantula 4MB VRAM VLB / PCI	365/365

SOFTWARE

1. PC SOFTWARE

SALE!

ADOBE / ALDUS

Acrobat Exchange	*(139)
Illustrator 4.0 for Win	425
Pagemaker 5.0 for Win	***(479)**
– Pagemaker + Photostyler 2.0	*(525)
Photoshop 3.0 for Win oem	295
Photoshop 3.0 for Win & NT	565
Premier 4.0 for Win - FD+CD	329
Type Manager 3.0 for Win	45

AUTODESK

AutoCAD Lite	*(399)429
Autosketch 2.0 for Win	135
Generic CADD 6.1	69

BORLAND

C++ 4.5 - CD for Dos, Win, Win32	325
- upgrade - CD	189
Dashboard for Win + Sidekick	49
dBase V for Win / upgrade	*(296/125)
Delphi competitive upgrade	*(185)
Paradox 5.0 for Win / comp. upgrade	*(295)/119
Power Pak for Dos	99
Sidekick / Sidekick 2 for Win	29/45
Turbo C++ for Dos / 4.5 for Win - CD	92/79

COREL

CD Creator for Win	165
Corel Draw 3.0 - FD+CD / CD	*(99/69)
Corel Draw 4.0 - CD oem / reg	65/*(249)
Corel Draw 5.0 - FD+CD / CD	*(525/415)
- upgrade fr 3.0 to 5.0 - FD+CD	*(355)
- upgrade fr 3.0 to 5.0 - CD only	299
- upgrade fr 4.0 to 5.0 - FD+CD	*(199)215
- upgrade fr 4.0 to 5.0 - CD only	*(165)
Corel Flow	*(59.95)
Corel Ventura 4.2 - FD+CD / CD only	175/139
Corel Ventura 5.0 - FD+CD / CD only	*(365/299)
- upgrade - CD	85

IBM

OS/2 3.0 Warp - CD / FD	75/76
OS/2 Connet / w. Windows	135/175
OS/2 Warp + Dos & Win - CD / FD	118/118
Voice Type Dictation for Win (w. ISA board)	699

INTUIT

Quicken Deluxe - CD 4.0 oem / reg	34/54
Quicken 4.0 for Win - FD / CD	39.95/36
Quickbook 3.0 for Win	95
QuickPay 3.0 for Win & Dos	49
QuickBook & QuickPay for Dos / Win	99/125

LOTUS

1-2-3 5.0 for Win / upgrade	299/99
1-2-3 4.0 for Dos / upgrade	365/99
Ami Pro 3.1 for Win	*(99)
Approach 3.0 for Win / w. 1-2-3 upgrd	99/145
cc:Mail Desktop 2.1 for Win	69
cc:Mail Desktop 10-user License	359
cc:Mail Group Pack for Win w. Organizer	595
cc:Mail Lan System 10 License	*(545)
- Lan System Trade-up 10 License (router)	375
cc:Mail Mobile E-Mail 2.0 for Win	135
- upgrade	75
cc:Mail Router 5.1	*(79)
Freelance Graphic 2.01 for Win	335
- upgrade for Win / for Dos	99/99
Notes Starter Pack 3.0	850
Organizer 1.1	95
Smart Suite 3.0 - FD / CD oem	**495/*(149)**
- upgrade	*(249)

MICROGRAFX

ABC Flowcharter 4.0	315
Designer Tech. 4.1	455
Picture Publisher 5.0 for Win - CD	*(129)
Windows Draw 3.0	49

MICROSOFT

Access 2.0 for Win / comp. upgrade	299/119
Arcade Games for Win	27
BOB (8 essential programs)	84.95
Creative Writer (age 8-14) - CD	***(32.95)**
Dos 6.22 / upgrade	42/49
Excel 5.0 for Win oem / reg	134/*(285)
- competitive upgrade	119
Fine Artists (age 8-14) - CD	***(32.95)**
Flight Simulator 5.1 - CD	49.95
- Japan / New York / Paris / SF Scenery	28/28/28/25
Fortran 5.1 Compiler	155
Fortran Powerstation / upgrade	339/195
Fortran Powerstation 32 / upgrade to NT	495/275
Fox Pro 2.6 Single Dos or Win	*(95)
Fox Pro 2.6 Professional / upgrade	449/285
Macro Assembler 6.11 (MASM)	155
Mail Server 3.2 (10-user)	445
Multimedia Viewer - CD	315
Office 4.2 for Win - FD / CD	*(439)/459
- competitive upgrade - FD	275
Office Professional 4.3 - FD	*(535)
- competitive upgrade - FD	*(345)
Office Prof. 4.3 + Bookshelf - CD	559
- upgrade + Bookshelf - CD	365
Office Windows '95 upgrade - FD / CD	225/225
Power Point 4.0 / upgrade	*(299)/125
Profit for Win	129
Project 4.0 for Win / upgrade	***(399)/139**
Publisher 2.0 for Win	89
Sound System 2.0 for Win - software only	49
Source Save	475
Space Simulator	42
SQL NT Server 4.21 upgrade	139
Test 3.0 for Win / upgrade	569/185
Visual Basic 3.0 for Win - Standard	129
Visual Basic Prof. 3.0 for Win - FD / CD	299/305
- competitive upgrade FD / CD	189/195
Visual C++ Standard 1.52 - CD	89
Visual C++ 2.0 for Windows NT (subsrcription)	469
- upgrade	(get $50 rebate fr MS)335
Visual C++ 2.0 for Win & NT (on-line doc.)	369
- upgrade	(get $50 rebate fr MS)239
Visual Fox Pro Standard / upgrade	189/95
Windows 3.11 / upgrade	51/49.95
Windows '95	189
- upgrade - FD / CD	95/95
Windows '95 Plus - FD / CD	45/45
Windows NT 3.51 Workstation - CD / FD	299/295
- upgrade fr v3.1 to v3.51	95
Windows NT Server 3.51	645
Windows NT Step-up fr 3.5 to 3.51 :	
- for server CD / FD	68/95
- for workstation CD / FD	19/45
Windows NT Server + 10 Client License	925
- single client license	35 each
Windows for Workgroups (reg. version)	135
- oem version in 3.5" FD	57
- Workgroups Add On 3.11 for Win	45
- Workgroups Add On 3.11 MS-DOS	52
Word 6.0 for Win oem / reg	135/289
- competitive upgrade	119
Works 3.0 for Win oem / reg	59/89

NOVELL (WORDPERFECT)

Perfect Office 3.0 for Win	399
Perfect Office Prof. 3.0 FD / CD oem	545/*(199)
- upgrade	289
Quattro Pro 6.0 for Win - CD	255
- upgrade / competitive trade-up	49/89.95
Wordperfect 5.2 for OS/2	*(99)
Wordperfect 6.0 for Dos (free upgrade)	*(259)
Wordperfect 6.1 for Win - FD / CD	***(225)/245**
- upgrade / trade-up	95/119
- educational version	79.99

QUARTERDECK

Cleansweep	***(28)**
DesqView/X 2.1	169
DesqView/X Network Manager (TCP/IP)	129
Qemm 7.5 / upgrade	59.95/36

SYMANTEC

ACT! 2.0 for Win	*(169)
C++ 7.0 for Win	189
Norton Anti-Virus 3.0 ($50 rebate offer)	89
Norton Commander 4.0	69
Norton Desktop 3.0 for Win oem / reg	95/112
Norton Speed Drive (speeds Win, Dos, CD)	69
Norton Utilities 8.0 oem / reg	94/109
On Target for Win (project planning)	89
PC Anywhere 5.0 Remote & Host for Dos	***(115)**
- v2.0 for Win	***(117)**
Q & A for Win	159

MACINTOSH TITLES

Adobe Illustrator	385
Adobe Pagemaker v5.08 / v6.0	*(549)/575
Adobe Photoshop for Power Mac	575
Claris File Maker Pro	95
Fractal Design Painter	315
FrameMaker 5.0 for Power Mac	569
Lotus CC Mail 2.2	69
Macromedia Fontographer	319
Macromedia Freehand for Mac & Power Mac	379
Macromedia Macro Model	179
Microsoft Excel 5.0	299
Microsoft Office 4.21	465
Microsoft Word 6.0	299
Netscape Navigator	38
Outlook PC File Exchange	75
Quark X'Press	619
Symantec Anti-Virus 4.0 (SAM)	69
Symantec Think C	189
Symantec Utilities 3.1	95

OTHERS

After Dark III - FD	29.95
- Complete After Dark - FD	39.95
By Design for Win	59
Caere: Omni Page Direct OCR 2.0	65
Caere: Omni Page Professional 5.0 for Win	445
– upgrade to 5.0 Prof.	139
Caere: Omni Page 5.0 for Win	309
Caere: Wordscan 3.0 for Win	169
Caere: Wordscan Plus 4.0 / upgrade	389/139
CA Clipper 5.2 / upgrade	479/115
CA Simply Accounting Dos / Win	69/69
Cakewalk Home Studio (music)	99
Cakewalk Professional 3.0 for Win	235
Canvas for Win / competitive trade-up	265/99
Carbon Copy 6.1 Guest & Host for Dos	105
Carbon Copy 2.5 for Win	*(115)
Check-It Pro vol.1 & vol.2	85
Check-It Pro Deluxe 2.0 for Dos	135
Claris File Maker Pro 2.1 for Win	115
- competitive upgrade	99
Claris Works for Win	*(49)69
DacEasy Accounting 5.0 for Dos	95
- v1.0 for Win	95
Delrina: Dilbert screen saver	28
Delrina: Echo Lake (family album)	45
Desk to Desk (office network for 2 - 255 user)	72
Design CAD 2D 7.0 for Win	179
Dilbert Screen Saver	26
Direct Access 5.1 for Dos	65
Disney Screen Saver	27.95
Eclipse Fax 1.2 for Win / w. OCR	69/79
FastBack Plus 6.0 for Dos	119
Floor Plan Plus 3D competitive upgrade	47
Fractal Dabbler	55
Fractal Design Painter 3.1 for Win	315

*(price) .... SALE PRICE

oem .... **$ bundled with hardware only**

Fractal Design Painter X2 for Win	88
FrameMaker 4.0 for Win - FD / CD	549/549
FTP: PC/TCP for Win	285
FTP: PC/TCP On-Net	345
Globalink Assistant (language translation)	
- French / German / Italian / Spanish	46 each
Harvard Graphics 3.0 for Win / upgrade	275/95
Helix Multimedia Cloaking	32
Helix Netroom 3.0 1 / 4 / 10-user	59/119/255
Hijaak Graphics 3.0 for Win	89
Kai's Power Tools 2.0 for Win	115
Kid CAD - FD / CD	29/36
Kodak Photoedge CD	89
Kodak Shoebox Image for Win	*(95)
Laplink V for Dos	105
Laplink 6.0 for Win / upgrade	129/85
Lion King Screen Saver	16
Mac-in-Dos for Win	89
Macromedia Director 4.0 for Win	795
Managing Your Money for Win	33.95
Math CAD 5.0 for Win	98
McAfee: Virus Scan 2.1 for Dos / Win	*(39.95/39.99)
Medical House Call (Applied Medical)	55
Netscape Navigator for Win (WWW)	36
One Write Plus Accounting & Payroll	49
Passport Encore 3.0	365
Peach Tree Accounting 3.0 for Win	115
Peach Tree Accounting 8.0 Complete	185
- Multi-user	279
Pocahontas Screen Saver (Disney)	19.95
Power Search (file manager)	*(25)39
Power Translator Professional for Win	379
Procomm Plus 2.1 for Dos / Win	89/126
QA Plus v4.8 for Dos / v6.0 for Win	59/59
Quark X Press 3.3 for Win	599
Qualitas 386 Max 7.0	*(59)
Ram Doubler for Win	55
Remove-It for Win & Dos	35
SpinRite 3.1	79
Stacker 4.0 / upgrade	95/55
StageSoft Accounting w. Payroll	159
- Lan version	*(255)
Tie Fighter (game)	*(35)45
Uninstaller 3.0 for Win (microhelp)	42
- for Network 2.0	*(95)
Visio 3.0 for Win	*(125)
Visio Technical 3.0	215
Watcom C++ v.10 16/32 bit	189
Wave 2.0 for Win (by Turtle Beach)	69
Win Check-It 2.0	46
Win Comm Pro	79
Windows '95 Advisor	37
Winfax Pro + Win Comm Pro	*(109)
Winfax Pro 4.0 - FD / CD	79/89
- for Server / 10-user pack	119/599
WinGuard Plus+ (data security Win & Dos)	39
WinLynx	*(39)79
WinSense 2.0 (windows optimizer)	39
Winsleuth Gold Plus	59
WinZones (Comprehensive Time)	19.95
Wordstar 2.0 for Win	39
XTree Gold 3.0 for Dos	*(95)
XTree Gold 4.0 for Win	85

2. CD SOFTWARE

SALE!

$3.50 (Special)

- Aesops Fables
- Airforce Commander
- Best of Media Clips
- Business Background
- Cardshop Plus
- Casino Master
- CD Roms of CD Roms
- Chaos Continum
- Crime City
- Digital Cinema
- Doom Fever
- Earth Invasion
- First Episode
- Four Footed Friends
- Great Naval Battles
- Gus Goes To Cybertown
- Hilarious
- Intro to PC & Dos
- Magic Death
- Majestic Place
- Money, Money, Money
- My First World Atlas
- PC Karaoke Classics
- Printmaster Gold
- Puzzle Master & Crossward Creator
- Red Baron
- Ringworld
- Sports
- Animation Festival
- Batik Design
- Blue Force
- Capital Hill
- Casino Collection
- CD Game Pak
- Chess
- Cyberplasm Formula
- Discoveries of the Deep
- Doom Shareware I
- Family Doctor
- Font 125
- Full Bloom
- GT Personal Accounting
- INCA II
- Jets
- Magnaflux Runner
- Mega Race
- Mowgli's Brothers
- No. 11 Downing St.
- People
- Props
- Reference Library
- Space Shuttle
- Stellar 7
- Stradiwackius
- Swimsuits Parade
- The Chessmaster 3000
- The First Emperor of China
- Time: Man of the Year
- Tony La Russa Baseball II
- Top 25 Only the Best Games
- Travel Companion
- US Atlas
- Wildplace
- Wolfenstein 3D
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- Kaseos Super Shareware
- MPC Multimedia Showcase
- Shareware Heaven
- Space Mission
- Super Clipart
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- Thunder Media Sound Library
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- 101 Best Game #1 / #2
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- Hier to the Throne
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Leisure Larry 6 DOS oem / reg	*(22)/44
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Linux 1995 Developer's Kit (2CD)	*(16)24
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Lode Runner oem / reg	19.50/*(26)
Lords of Realm	*(29)43
Lords of Rings oem / reg DOS	15/*(19.95)
Lost & Found v.1 / v.2 / v.3 (for kids)	24/24/24
Lost Eden (by Origin)	39
Lunicus MPC oem / reg	17/29
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Mac Beth - Karaoke	15
Machiavelli the Prince	***(39.95)**
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Mad Dog II : the Lost Gold oem / reg	16/19

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Strip Poker Pro	32
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Subwar 2050+ oem / reg	25/39
Super Arcade Game	17
Super Bowl Commemorative	53
Super Karts	*(36)
Super Sport II (3CD)	22
Super Street Fighter 2 Turbo	35
Super Type Mystery Library	13
Supersonic oem / reg	19/46
Swimsuit Calendar oem / reg	13/29
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Syndicate Plus	*(18)
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Treasure Mountain (by Learning Co.)	39
Tuneland MPC oem / reg	24/45
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Resources

Calendar Of Events

Conferences, Shows, Special Events

August

August 19–20 Computer Show And Sale. Scottish Rite Center, Sacramento. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

August 20–24 SCO Forum95: SCO's 9th Annual International Open Systems Symposium. UC Santa Cruz. The Santa Cruz Operation. Call: 1-800-553-9939 or (408)427-7252.

August 21–23 Silicon Valley Personal Computer Design Conference And Expo. San Jose. SysTech Research. Call: (408)293-8383 or email *systech@ix.netcom.com* .

August 22–23 NetWare User Conference. San Jose. NetWare Users International. Call: 1-800-755-9898.

August 23 Live Internet Interview With Raphael Ezekiel On The Racist Mind. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

August 23 Venture Capital One-On-One Day. San Jose. Center for Software Development. Call: (408)494-8378.

August 26–27 Computer Show And Sale. Solano County Fairgrounds, Vallejo. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

August 29–September 1 Windows Solutions Conference And Expo. San Francisco. SOFTBANK Expo and Conference Co. Call: (415)578-6900.

August 30 Live Internet Interview With Guy Kawasaki On How To Drive Your Competition Crazy. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

September

September 2 Computer Show And Sale. Contra Costa Fairgrounds, Antioch. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

THROUGH SEPTEMBER 3

Remembering Nagasaki

THE EXPLORATORIUM, SAN FRANCISCO

As part of the world's observance of the fiftieth anniversary of the bombings of Hiroshima and Nagasaki, the Exploratorium is hosting a World Wide Web page (http://www.exploratorium.edu/nagasaki) to commemorate and open discussion about these events and their implications. The Web page is offered in conjunction with the simultaneous exhibition of Nagasaki Journey: The Photographs of Yosuke Yamahata at the Ansel Adams Center for Photography in San Francisco, the International Center of Photography in New York, and Chitose Pia Hall in Nagasaki. The site allows visitors to share their memories of how they learned about nuclear weapons and the dangers of nuclear war, and encourages discussion of the changed role of science and technology and the responsibility of the science community in the nuclear age.

SEPTEMBER 11–12

Digital Media Outlook Conference

AIRPORT HYATT REGENCY, BURLINGAME

At this year's Digital Media Outlook the focus will be on online business, from the Internet and digital commerce to interactive consumer services and network publishing. The program will look at the wired household and the wired business. Attendees will learn which industries will gain, and which will lose, from the rise of the Internet; whether there's still a future for interactive video; what lies beyond HTML; and what it will take to get consumers to bank, pay bills, and buy stocks online. In addition to presentations and panels, there will also be more than one hundred of the youngest, hippest, and most promising technology companies in digital media. The conference fee is $1495, which includes all conference activities and meals. For more information contact Technologic Partners at (212)343-1900 or events@technologicp.com .

NOTICE

Because of the plethora of listings received and the limited space available, we are not able to list every class offered by every educator. We try to give a representative sample when we can't fit all of a company's offerings, but please call the organizations for complete information on their classes or to receive a course catalog.

September 3 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Club. Call: (510)783-2803 days, 447-3857 eves.

September 3 Computer Show And Sale. Sonoma County Fairgrounds, Santa Rosa. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

September 6 Live Internet Interview With Dr. Joyce Shira Starr On The 3000-Year Celebration Of Jerusalem. On the World Wide Web at *http://www.irsociety.com/roundtable.html* at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

September 6–8 Third International Information Warfare Conference. Arlington, VA. National Computer Security Association. Call: (717)258-1816 ext. 202 or *74777.3033@compuserve.com* .

September 10 Computer Show And Sale. Scottish Rite Center, Sacramento. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

September 10 Robot Races. San Francisco. Exploratorium. Call: (415)563-7337.

September 11–12 Digital Media Outlook Conference. San Francisco. Technologic Partners. Call: Rob Johnson, (212)343-1900 or email *events@technologicp.com* .

September 11–14 Information Superhighway Summit Conference And Expo. Santa Clara. IDG World Expo. Call: 1-800-225-4698.

September 12–13 Networked Economy Conference: Toward The Global Information Infrastructure. Washington, DC. CMP Publications, Inc. Call: (516)562-7434 or email *jvarman@cmp.com* .

September 12–14 8th Multimedia Expo West And Internet: Online And On The Web. San Francisco. American Expositions. Call: (212)226-4141.

September 12–15 Embedded Systems Conference. San Jose. Miller Freeman, Inc. Call: Sherry Nykiel, (415)905-2354.

September 13 Live Internet Interview With Dr. Oliver Sacks, Professor Of Neurology. On the World Wide Web at *http://www.irsociety.*

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September 9, 1995 - Oakland Convention Center
September 16, 1995 - Cow Palace
October 21, 1995 - Oakland Convention Center

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Calendar Of Events *continued...*

com/roundtable.html at 7:00 pm. Internet Roundtable Society. Call: (415)327-4386.

September 14 CyberFlix Multimedia Demo. UC Berkeley campus. CyberFlix and BMUG. Call: (510)549-2684 ext. 8.

September 14–15 7th International Unicode Conference And Multilingual Computing Exhibition. San Jose. The Unicode Consortium, Call: (408)777-5870 or *unicode-inc@unicode.org*.

September 14–15 GlobalSoft International Forum. Seattle. GlobalSoft Expo. Call: Steve Hatch, (206)624-9743 or *rshatch@globalsoftexpo.com*.

September 17 Computer Show And Sale. Civic Auditorium, Stockton. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

September 17–20 Softworld '95 Conference. Vancouver, B.C. Technology Industries Association of British Columbia. Call: 1-800-667-5535 or *info@softworld.org*.

September 17–22 9th Systems Administration Conference. Monterey. USENIX. Call: (714)588-8694 or *conference@usenix.org*.

September 18–20 National Human Resources Information Technology Expo And Conference. San Jose. Blenheim. Call: 1-800-232-3976.

September 18–21 UNIX Expo '95: The Open Systems Show. New York. Blenheim. Call: 1-800-829-3976.

September 19–21 The Online Developers II Conference. San Francisco. Jupiter Communications. Call: 1-800-488-4345.

September 20–22 The Educational Technology And Telecommunications Markets Conference. San Diego. *The Heller Report*. Call: (708)441-2920 or email *EdNET95@aol.com*.

September 21–22 Digital Shopping And Electronic Commerce Conference And Exhibition. New York City. American Expositions, Inc. Call: (212)226-4141.

September 23–24 Computer Show And Sale. Solano County Fairgrounds, Vallejo. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

September 26–29 Seybold Conference And Expo. San Francisco. SOFTBANK Expos. Call: 1-800-488-2883.

September 27–29 Implementing A Corporate Repository Seminar. San Francisco. DCI. Call: (508)470-3880 or *DCIconf1@aol.com*.

October

October 1 Computer, Ham Radio, Electronics Swap Meet. Livermore. Livermore Amateur Radio Club. Call: Noel Anklam, at (510)447-3857.

October 7–11 International Exhibition Of Computers And Applications For China. Shanghai, China. CATE Development, Inc. Call: (415)903-2288.

October 7–8 Computer Show And Sale. Cal Expo, Sacramento. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

October 9–11 1995 Connector And Interconnection Symposium And Trade Show. San Jose. International Institute of Connector and Interconnection Technology. Call: 1-800-85-IICIT.

October 9–12 The Eighth Annual Microprocessor Forum. San Jose. MicroDesign Resources. Call: 1-800-770-4006.

October 10–12 IBM TechCon: The Client/Server Solutions Conference. San Jose. IBM. Call: 1-800-767-2336.

October 10–12 Software World And Client/Server Developer's Conference And Expo. San Jose. DCI. Call: (508)470-3880.

October 14–15 Computer Show And Sale. Solano County Fairgrounds, Vallejo. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

October 16–18 TechDecisions '95 Conference And Expo. San Jose. CMP Trade Show & Conference Services. Call: 1-800-808-EXPO.

October 22 Computer Show And Sale. Civic Auditorium, Stockton. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

October 24–28 Interactive Summit. Squaw Valley. International Interactive Communications Society. Call: (818)798-5588 or *IICSSummit@aol.com*.

October 26–27 Systems Support Expo. San Francisco. Service News. Call: (207)846-0600.

October 29–November 2 Autodesk University Conference And Exhibition. San Francisco. Miller Freeman, Inc. Call: Yolanda White, (415)905-4994.

October 30–November 3 People, Networks And Communication '95 Conference. Honolulu, Hawaii. International Community Interconnected Computing Exchange. Call: Gale Warshawsky, (510)820-6821 or *msgale@netcom.com*.

Classes, Seminars, Workshops

August

August 19 LAN Interface Design Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

August 19 Web Builders Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com*.

August 20 Internet Exploration Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com*.

August 20 Intro To Internet Commerce Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com*.

August 21 AT&T UNIX System V Release 4 Administration Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

August 21 Complete Online Novell CNA Training Class. Berkeley. Cyber State University. Call: (510)253-TREK.

August 21 Fox Pro 2.6 For DOS/Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 21 Intro To UnixWare Free Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

August 21 Using The Internet As A Communication Backbone: Email, Fax Services, And File Transfer Free Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

August 21 Using Windows 95 With NetWare Free Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

August 21–22 Intro Illustrator Class. Oakland. MacPeople. Call: 1-800-360-4606.

August 21–22 Planning And Implementing Workflow Systems And Business Process Re-Engineering Class. San Jose. American Institute. Call: 1-800-345-8016.

August 21–24 3D Studio Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

August 21–24 Advanced PageMaker Class. Oakland. MacPeople. Call: 1-800-360-4606.

August 22 Access 2.0 Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 22 Excel 5.0 Win/Mac Charts Class. Emeryville. NCS. Call: (510)653-0808.

August 22 Intro To PowerPoint Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

August 22 Lotus 1-2-3 4.0/5.0 For DOS/Win Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 22 Quattro Pro 5.0/6.0 For DOS/Win Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 22 Windows 95 System Administration Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

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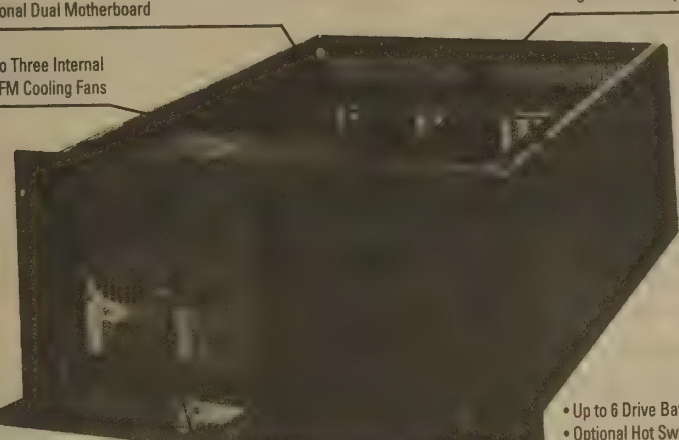

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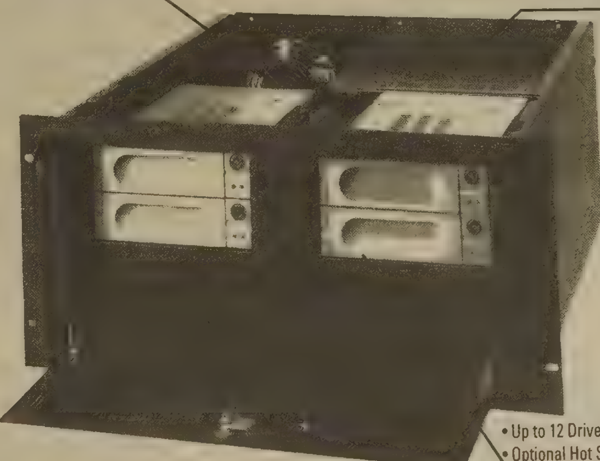

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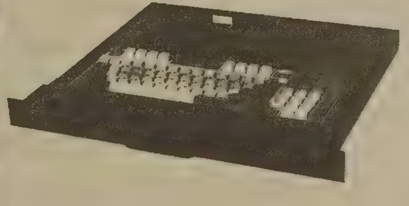

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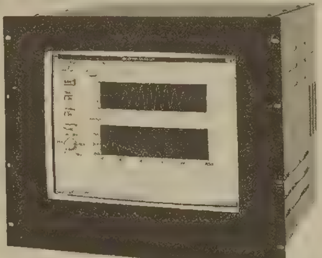

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Rack Mount Cherry 101 Keyboard		$ 155.00
Rack Mount HDD/CD-ROM Chassis		$ 220.00
Rack Mount 17" Monitor Enclosure		$ 225.00

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Calendar Of Events *continued...*

August 22–25 Advanced AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

August 23 Communication Arts And New Information Technologies Open House. Berkeley. Vista Community College. Call: Russ Stolins, (510)841-8860, ext. 266.

August 23 Free Multimedia Studies Program Information Session. San Francisco. SFSU Extended Education. Call: (415)904-7700.

August 23 Intermediate Excel Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

August 23 PowerPoint 4.0 Win/Mac Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 23 "Still in the Dark About Digital?" Seminar. San Francisco. Adolph Gasser Inc. Call: 1-800-994-2773.

August 23 Word 6.0 Win/Mac Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 23 Word 6.0 Win/Mac Upgrade Class. Emeryville. NCS. Call: (510)653-0808.

August 23–24 Intro PowerPoint Class. Oakland. MacPeople. Call: 1-800-360-4606.

August 23–25 Animator Studio Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

August 24 Design For General Printing And Desktop Publishing Class. Oakland. Laney College Graphic Arts Department. Call: Bill Leal, (510)464-3263.

August 24 Electronic Publishing Class. Oakland. Laney College Graphic Arts Department. Call: Bill Leal, (510)464-3263.

August 24 Excel 5.0 Win/Mac Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 24 Excel 5.0 Win/Mac Macro Class. Emeryville. NCS. Call: (510)653-0808.

August 24 Intermediate WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

August 24 Intro To MS-DOS 5.0/6.2 Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 24 Pasteup—Traditional And Electronic Class. Oakland. Laney College Graphic Arts Department. Call: Bill Leal, (510)464-3263.

August 24 Software For The Graphic Arts Class. Oakland. Laney College Graphic Arts Department. Call: Bill Leal, (510)464-3263.

August 24–26 PCB Design For Analog And RF Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

August 25 Intermediate Lotus For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

August 25 Paradox 4.5/5.0 For DOS/Win Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 25 Web Masters Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

August 26 Web Builders Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

August 27 Internet 101: An Introduction And Overview For Beginners And The Curious Class. San Francisco. Internet Literacy Consultants. Call: (415)469-8271 or *info@matisse.net*.

August 27 Internet Exploration Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

August 27 Intro To Internet Commerce Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

August 28 Complete Online Novell CNE Training. Berkeley. Cyber State University. Call: (510)253-TREK.

August 28 Understanding And Using The Internet Seminar. San Francisco. National Seminars Group. Call: 1-800-258-7246 or *rccec@accunet.com* .

August 28 Windows 95 Transition Class. Oakland. California Computer Options. Call: (510)444-5788 ext. 188.

August 28–29 Intro Photoshop Class. Oakland. MacPeople. Call: 1-800-360-4606.

August 28–29 WordPerfect 6.0/6.1 For DOS/Windows Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 29 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Call: (510)836-2040

August 29 Intermediate Word For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

August 29 Kodak Photo CD Pre-Press Seminar. San Francisco. ITS CD. Call to reserve a space: (415)668-4688.

August 29 Network Administration With NetWare 4.x Class. Oakland. Merritt College. Call: (510)531-4911.

August 29 Understanding And Using The Internet Seminar. San Jose. National Seminars Group. Call: 1-800-258-7246 or *rccec@accunet.com* .

August 30 Intermediate WordPerfect For DOS Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

August 30 Intro To UnixWare Class. Oakland. Merritt College. Call: (510)531-4911.

August 30 PowerPoint 4.0 Win/Mac Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 30 Understanding And Using The Internet Seminar. Concord. National Seminars Group. Call: 1-800-258-7246 or *rccec@accunet.com* .

August 30 Word 6.0 Win/Mac Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 30–31 Win32 Programming: Processes, Threads, Networks, And DLLs Class. San Francisco. UC Berkeley Extension. Call: (510)642-4151.

August 31 FoxPro 2.6 For DOS/Win/Mac Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 31 Understanding And Using The Internet Seminar. San Mateo. National Seminars Group. Call: 1-800-258-7246 or *rccec@accunet.com* .

August 31–September 1 Advanced Photoshop Class. Oakland. MacPeople. Call: 1-800-360-4606.

August 31–September 1 HP Laser Printer Repair Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

September

September 1 DOS Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

September 1 Web Masters Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 2 Web Builders Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 3 Internet Exploration Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 3 Intro To Internet Commerce Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 4 Complete Online Novell CNA Training. Berkeley. Cyber State University. Call: (510)253-TREK.

September 5 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

September 5 Windows Tips, Techniques, And Shortcuts Seminar. Sacramento. National Seminars Group. Call: 1-800-258-7248.

September 5–8 Advanced Illustrator Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 5 & 12 Software Technical Reviews And Inspections Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

September 6 Macintosh Basics Class. Oakland.

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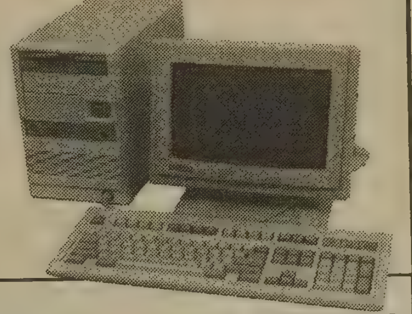

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- PCI Controller with I/O
- Medium Tower Case
- Enhanced 101 Keyboard
- MS DOS & Windows
- Mouse & Mouse Pad

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- MS DOS & Windows
- Mouse & Mouse Pad

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Panasonic 2X CD-ROM	109
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Microsoft Bus	59
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Calendar Of Events *continued...*

MacPeople. Call: 1-800-360-4606.

September 6 Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

September 7 Lotus 1-2-3 Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

September 7 MS Office 4.2 Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 7–8 Intro MS Office Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 7 & 11 WordPerfect 6.0/6.1 For DOS/Windows Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 8 FoxPro 2.6 For DOS/Win/Mac Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 8 Intro To AutoCAD Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

September 8 Web Masters Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 8 Word For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

September 9 Computer Ergonomics: Save Yourself Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 9 IPng/IPv.6—New Directions For IP Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

September 9 Overview Of Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 9 Web Builders Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 10 Hands-On HTML Training Class. San Francisco. Internet Literacy Consultants. Call: (415)469-8271 or *info@matisse.net* .

September 10 Internet 202: Searching The Internet Class. San Francisco. Internet Literacy Consultants. Call: (415)469-8271 or *info@matisse.net* .

September 10 Internet Exploration Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 10 Intro To Internet Commerce Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 11 Complete Online Novell CNE Training. Berkeley. Cyber State University. Call: (510)253-TREK.

September 11 Excel 5.0 Win/Mac Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 11 Lotus 1-2-3 4.0/5.0 for DOS/Win Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 11 Paradox 4.5/5.0 For DOS/Win Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 11 UNIX Fundamentals For Users Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

September 11 Windows Tips, Techniques, And Shortcuts Seminar. Santa Rosa. National Seminars Group. Call: 1-800-258-7248.

September 11 WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

September 11–12 Intro PageMaker Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 11–12 Security And Disaster Recovery For LANs And WANs Seminar. San Jose. Center for Advanced Professional Development. Call: (714)261-0240.

September 11–12 WebFest Seminar. San Jose. NaviSoft, Inc. Call: 1-800-368-3204.

September 11–12 WordPerfect 6.0/6.1 For DOS/Windows Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 11–14 Advanced Photoshop Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 11–14 Professional AutoCAD Level I Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

September 11–October 9 Intermediate Macromedia Director Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 11–November 13 Empowering The Audience: Basics Of Multimedia Interaction Design Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 12 Windows Tips, Techniques, And Shortcuts Seminar. Palo Alto. National Seminars Group. Call: 1-800-258-7248.

September 13 PowerPoint 4.0 Win/Mac Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 13 Software Licensing Agreements Seminar. San Jose. Center for Advanced Professional Development. Call: (714)261-0240.

September 13 Windows Tips, Techniques, And Shortcuts Seminar. Concord. National Seminars Group. Call: 1-800-258-7248.

September 13 Word 6.0 Win/Mac Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 13 Word 6.0 Win/Mac Upgrade Class. Emeryville. NCS. Call: (510)653-0808.

September 14 FoxPro 2.6 For DOS/Win/Mac Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 14 Windows Tips, Techniques, And Shortcuts Seminar. San Jose. National Seminars Group. Call: 1-800-258-7248.

September 14–15 Intro QuarkXPress Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 14–15 Intro To Telecommunications Class. San Jose. American Institute. Call: 1-800-345-8016.

September 14–15 Software Testing And Quality Assurance Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

September 15 Excel 5.0 Win/Mac Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 15 Quattro Pro 5.0/6.0 For DOS/Win Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 15 Web Masters Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 15 Windows Tips, Techniques, And Shortcuts Seminar. San Francisco. National Seminars Group. Call: 1-800-258-7248.

September 16 Careers In Multimedia Seminar. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 16 Web Builders Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 17 Internet Exploration Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 17 Intro To Internet Commerce Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 18 Complete Online Novell CNA Training. Berkeley. Cyber State University. Call: (510)253-TREK.

September 18–21 Advanced QuarkXPress Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 18–21 Professional AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

September 18–22 Autodesk 3D Studio Basics Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 18–October 9 QuarkXPress 1A Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

September 19 Excel 5.0 Win/Mac Level 3 Class.

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P5-90/256K VLB - PCI	$1151
P5-75/256K VLB - PCI USA	$1040
P5-90/256K VLB - PCI USA	$1198
P5-100/256K VLB - PCI USA	$1308
P5-66/256K PCI	$980
P5-90/256K PCI	$1151
P5100/256K PCI	$1232
P5-120/256K PCI	$1551
P5-133/256K PCI	$1796

—SYSTEM CONFIGURATION—

- Motherboard w/ CPU
- Upgradable
- 4 MB RAM 70NS
- 200MB HDD
- 1.44 Floppy Drive
- IDE 2HD/2FD Controller w/ 2S/1P/1G
- 512KB SVGA Card
- 14" SVGA .28 Color Monitor NI
- 101-Key Enhanced Keyboard
- Enhanced Case w/ Power Supply
- Logitech Compatible Mouse

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Mitsumi FX400 Quad-Speed IDE	174
Panasonic Dual-Speed (Bare Drive)	114
Sony 55E Dual-Speed (Bare Drive)	107
Teac Quad-Speed CD-55A IDE	190
Toshiba Quad-Speed 5302B IDE	160
Toshiba Quad-Speed 5301B SCSI	285
Panasonic Quad-Speed SCSI	210
Pioneer Quad-Speed SCSI	275
Deluxe Speakers	6
40W/80W Speakers	40/56

FAX/MODEMS

US Robotics	
Sportster 14,400 Fax Modem Internal	$88
Sportster 14,400 Fax Modem External	138
Sportster 28.8 Fax Modem Internal	188
Sportster 28.8 Fax Modem w/v.34 Int.	214
Sportster 28.8 Fax Modem w/v.34 Ext.	234
Fax Modem (9600 Fax/24 Modem)	25
Fax Modem 14,400 Internal	48
Fax Modem 14,400 External	63
Fax Modem 14,400 w/Voice Internal	53
Fax Modem 28.8 Internal	95

MONITORS

14" SVGA 1024x768 .39	$168
14" SVGA 1024x768 .28 Int.	$202
14" SVGA 1024x768 .28 NI	$198
NEC 5FGe 17" 1024x768 .28dpi	$936
NEC XE 15 / XP 15	$524/644
NEC XE 17 / XP 17	$944/1184
NEC XE 21/ XP 21	$1,894/2,3282
Viewsonic 15E 15" 0.28DP	$325
Viewsonic 17 17" 0.28DP	$780
Viewsonic 20 20" 0.28DP	$1224
Viewsonic 21 21" 0.26 DP	$1592
Mag DX15F 15" 0.26DP	$336
Mag DX17F 17" 0.26DP	$610
Nanao F340iw	$625
Nanao F550iw	$862
Nanao F560iw	$1146

VIDEO CARD/VLB-VIDEO CARDS

Winodws Acclerators w/1MB	$52
ATI	
Wonder PCI/VLB1MB DRAM	$88
Ultra Plus PCI/VLB 2MB DRAM	$192
Ultra Pro PCI 2MB VRAM (Mach 32)	$206
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WinTurbo 64 PCI/VLB 2MB VRAM (Mach 64)	$254
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Stealth 64 PCI/VLB 2MB (VRAM)	$244
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CFS-540A 540MB 14ms 32K IDE	$160
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CFA-1275A 1.2GB 9.5ms 256K IDE	$240
CP-30350 340MB 12ms SCSI	$174
CP-30540 540MB 12ms SCSI	$239
CFP-21085 2.1GB 9ms 256K SCSI-2 Int.	$829
CFP-2105S 2.1 GB 9ms 256K SCSI Ext.	$899
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MXT-7850 850MB EIDE	$219
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MV-540S 540MB 14ms 128K SCSI-2	$199
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WD-3100 1.0GB WD3120 1.2GB 10ms	$329/349
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MC1191AV 9GB 10ms 5.25X1 SCSI	$2329
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2742 EISA Kit for 14HD	$255
2842 VLB/2940 PCI SCSI W Kit	$207/188
2940W Wide SCSI PCI W Kit	$258
BUSLOGIC	
BT-445C VLB Fast SCSI-2 w.Kit 10mb/s	$192
BT-554C ISA Fast SCSI-2 w. Kit 10mb/s	$182
BT-747S EISA Fast SCSI-2 w. Kit 10mb/s	$299
BT-945C PCI Fast SCSI-2 w. Kit 10mb/s	$
PROMISE	
DC-2300 Plus Enhanced IDE w.16550	$48
CD-4030 VLB IDE Cache w. 4HD	$90
IDEISA/IDE VLB w.2HD2FD 2S 1P 1G	$11/19
PCI IDE/NCR PCI SCSI	$26/79

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DJ-35C 350MB / DJ-25 750MB	$128/280
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4320RP 4-8GB Int.	$850
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FOCUS 2001/7000 w. TrackBall/9001	$31/42/44
KEYTRONICS 101-Key/101-Key 2189/124	$22/26/55
MAXISWITH 2189 101-Key/124-Key	$26/55
MICROSOFT natural keyboard	$84
MITSUMI model Z/Model R 101-Key	$15/22
NORTHGATE Omni 101/Omni 102/Ultra	$65/55/83

SOFTWARE

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MS DOS 6.22 1 (open) w/system purchase	$45
Microsoft Excel 5.0 for Windows	$265
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Microsoft Project 3.0 for Windows	$425
Microsoft Word for Windows	$290
Microsoft Windows 3.11 (w/System Purchase)	$58
Microsoft Windows 3.11 Workgroups (w/System)	$70
MPFS Works for Windows	$29
WordPerfect 6.0 (Win)	$249
Microsoft Windows NT 3.5 (Work Station)	$295

PRINTERS

CANON	
BJ-200E/BJC-600	$269/509
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LaserJet 4L/4/4Plus	$645/1355/1345
LaserJet 4M/4ML/4M Plus	$1895/1890/1815
LaserJet 4P/4MP	$928/1350
LaserJect 4Si/4SiMX	$2824/3990
HP1200C/320 Portable	$990/289
OKIDATA	
OL400E Laser	$425
PANASONIC	
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Color Kit for 2123	$54

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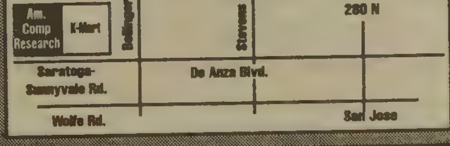

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Calendar Of Events *continued...*

Emeryville. NCS. Call: (510)653-0808.

September 19 Lotus 1-2-3 4.0/5.0 For DOS/Win Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 19 Quattro Pro 5.0/6.0 For DOS/Win Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 19 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

September 19–20 Intro Persuasion Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 19–October 10 Autodesk Animator Pro 1A Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

September 20 Intro To Windows Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 20 Word 6.0 Win/Mac Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 21 Intro To MS-DOS 5.0/6.2 Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 21 Intro To Windows 3.1 Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 21–22 Intro Illustrator Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 21–22 WordPerfect 6.0/6.1 For DOS/Windows Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

September 22 Access 2.0 Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

September 22 Access 2.0 Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 22 Excel 5.0 Win/Mac Charts Class. Emeryville. NCS. Call: (510)653-0808.

September 22 Web Masters Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com*.

September 23 Web Builders Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com*.

September 24 Internet Exploration Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com*.

September 24 Intro To Internet Commerce Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com*.

September 25 Object-Oriented Programming In C Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

September 25 Windows Tips, Techniques, And Shortcuts Seminar. San Jose. National Seminars Group. Call: 1-800-258-7248.

September 25–26 Intro Photoshop Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 25–26 Novell System Supervisor 3.12 Class. Emeryville. NCS. Call: (510)653-0808.

September 25–26 Project 4.0 Win/3.0 Mac Level 1 & 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 25–28 Professional AutoCAD Level III Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

September 27 PowerPoint 4.0 Win/Mac Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 27 Word 6.0 Win/Mac Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

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486 DX2-66 W/256K PCI (AMD)	$259
486 DX2-66 W/256K VLB (AMD)	$189
486 DX-33 W/256K VLB (INTEL)	$179
486 SX-33 VLB (INTEL)	$159
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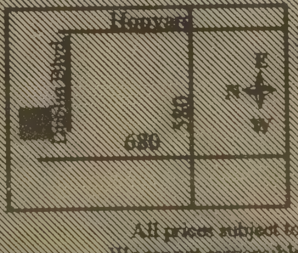

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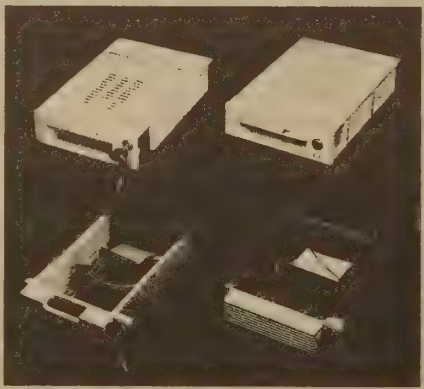

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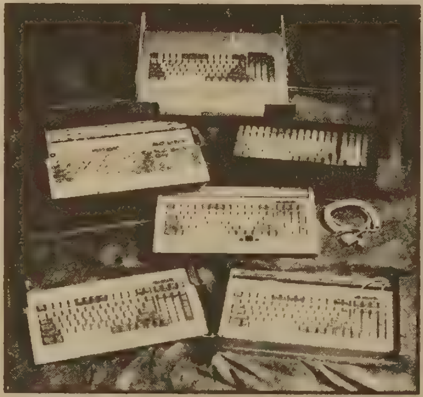

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Resources

Calendar Of Events *continued...*

September 28 Access 2.0 Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

September 28 Excel 5.0 Win/Mac Macro Class. Emeryville. NCS. Call: (510)653-0808.

September 28 Paradox 4.5/5.0 For DOS/Win Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

September 28 Paradox 4.5/5.0 For DOS/Win Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

September 28 Windows Tips, Techniques, And Shortcuts Seminar. San Rafael. National Seminars Group. Call: 1-800-258-7248.

September 28–29 Computer Literacy Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

September 28–29 Intro FreeHand Class. Oakland. MacPeople. Call: 1-800-360-4606.

September 28–29 Understanding Document Imaging Seminar. Sacramento. Data-Tech Institute. Call: (201)478-5400.

September 28–29 Understanding TCP/IP Seminar. San Jose. Data-Tech Institute. Call: (201)478-5400.

September 28–October 12 Typographic Design For DTP Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

September 29 FoxPro 2.6 For DOS/Win/Mac Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

September 29 Web Masters Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 29 Windows Tips, Techniques, And Shortcuts Seminar. San Mateo. National Seminars Group. Call: 1-800-258-7248.

September 30 Web Builders Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

September 30–October 1 Intro To Multimedia Authoring For The World Wide Web Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

September 30–October 1 NetWare v3.1X: Installation And Configuration Workshop. San Francisco. UC Berkeley Extension. Call: (510)643-6904.

October

October 1 Internet Exploration Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

October 1 Intro To Internet Commerce Seminar. Palo Alto. Internet Business Solutions. Call: (415)617-3722 or *info@interbiz.com* .

October 3 Windows Tips, Techniques, And Shortcuts Seminar. San Francisco. National Seminars Group. Call: 1-800-258-7248.

October 4 Windows Tips, Techniques, And Shortcuts Seminar. Concord. National Seminars Group. Call: 1-800-258-7248.

October 5 Windows Tips, Techniques, And Shortcuts Seminar. San Jose. National Seminars Group. Call: 1-800-258-7248.

October 5–6 MS Word Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 5–6 Understanding LANs Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

October 5–12 CD-ROM Production Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 7–28 Creating Multimedia With Apple Media Tool Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

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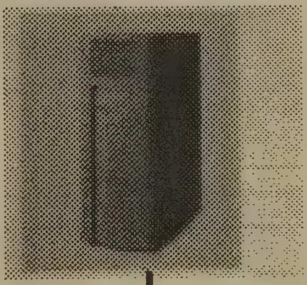

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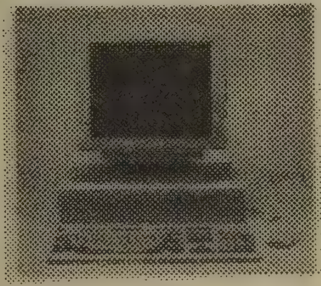

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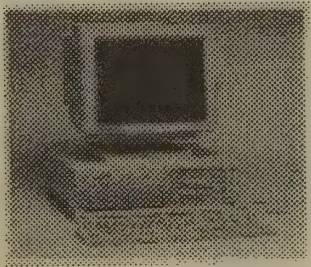

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IBM 7845 NT1 Extended	$335	Motorola Bitsurfer TA210	$399
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E) Same as "D" above, only 5VDC @ 500mA, +12VDC @ 1A **HSC# 15139 $9.95**

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- CS-550 by Labtec (pictured below) has:
  - Volume control, Bass boost switch, Treble-boost switch, measures 4" x 4" x 6"
  - CS-550 has 40 - 16000 Hz freq. response, 3" speakers, and power light.
  - 4 watt amplifiers (uses 2 C-cells per side)
- Both feature magnetically shielded enclosures, "enhanced bass-response cabinet design",) and attractive beige styling.

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Phillips CM-206 2X-Drive	**HSC#15366**	**$49.95**
NEC CDR-55JD 2X-Drive	**HSC# 15386**	**$99.00**
NEC CDR-510 3X-Drive	**HSC# 15327**	**$139.95**

Computer Case Close-out!

- Mini Tower Case (no power supply) 16.25" x 6.75" x 13.25"
- Hardware kit, stand, One 5.25" bay, two 3.5" bays

-or-

- Baby-AT style Desktop Case, 16.5" x 17" x 6.75"
- Hardware kit, 200W Power Supply, three 5.25 bays, two 3.5" bays. Both cases are new with 90 day warranty.

Mini-Tower Case	**HSC# 15356**	**$19.95**
Baby-AT Style Case	**HSC# 15355**	**$34.95**

386 CPU Special!

- Special deal on 25MHz 386 Processor / Oscillator Combo!
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- NE2100 Compatible, NI6510 Compatible
- Handy 5-pack contains 5 cards, 1 Manual and 2-disk software pack)
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HSC# 15364 **$99.95 / 5pk.**

Serial Smartswitch

- Two computers can share one serial printer or plotter
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- Printer-ready light shows status at a glance
- X-on / X-off light show print job status
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- New in box, 90-day warranty

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- General Electric Model EDS1B3 Digital Bathroom Scale
- Weighs from 25 to 299 lbs.
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HSC# 15336 **$12.50**

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HSC# 15432 **$27.50**

Remote Control for your Computer!

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- Infrared Remote operates your computer from 50 feet
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- Serial Interface (IBM version) or ADB (Mac version)
- Handheld remote is 7" x 2.5" x .5"
- Included software provides screen pointer for emphasis
- Keystroke mapping table can be customized, saved
- Roam the room, make eye contact with your audience
- Like using a TV set remote control (easy to set-up, use)

HSC# 15240	**IBM Remote Keyboard**	**$29.95**
HSC# 15241	**Mac Remote Keyboard**	**$39.95**

Inmac Telco/Network Items

- Inmac 570-3 Patch-panel for RJ-45 Connectors
- 48 jacks on a 19" panel, fanned out from 8 50-pin conn.
- New in box, panel is 3.5" x 19" with 1" deep chassis

HSC#15510 **$29.95**

- Inmac 6683 Data Line Protector for modem/telco lines
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HSC#15544 **$4.95**

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- SmartSync Software by Nomadic Systems
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- Fast and efficient, transfers only the changes
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HSC# 15305 **$19.95**

Tiny Trackball for DOS!

- Mouse Systems NewPoint Trackball for DOS/Windows
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Calendar Of Events *continued...*

October 9 C For Programmers Class. Pleasanton. AT&T Technical ducation Center. Call: Adrian Kendrick, (510)224-3929.

October 10–11 NetWare Basic Training Seminar. San Jose. Center for dvanced Professional Development. Call: (714)261-0240.

October 12–13 Migrating To Windows 95 Seminar. San Jose. Center or Advanced Professional Development. Call: (714)261-0240.

October 12–13 MS PowerPoint Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 16 Windows Tips, Techniques, And Shortcuts Seminar. Oak- and. National Seminars Group. Call: 1-800-258-7248.

October 16–17 Advanced SGML Syntax Class. San Jose. GCA. Call: 703)519-8160.

October 16–17 DTD Designer's Workshop. San Jose. GCA. Call: 703)519-8160.

October 16–17 HTML And Internet Publishing Class. San Jose. GCA. Call: (703)519-8160.

October 16–17 SAP R/3 Objective Analysis—Is SAP Right For You? Seminar. San Jose. American Institute. Call: 1-800-345-8016.

October 17–December 19 Empowering The Audience: Basics Of Mul- imedia Interaction Design Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 19 Windows Tips, Techniques, And Shortcuts Seminar. Sacramento. National Seminars Group. Call: 1-800-258-7248.

October 19–20 MS Excel Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

October 19–20 Negotiating Software License Agreements Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

October 19–November 9 PageMaker 1A Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

October 21–November 11 Introducing ScriptX Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 23–25 Hands-On Lotus Notes Administration Class. San Jose. American Institute. Call: 1-800-345-8016.

October 23–November 20 Intermediate Macromedia Director Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 25 Creating, Protecting, And Exploiting Intellectual Property Rights In The Digital Media: The Legal Essentials Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 25–December 20 Interactive And Experimental Fiction Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

October 27–November 17 Intro To Multimedia Authoring For The World Wide Web Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

November

November 4 Computer Ergonomics: Save Yourself Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

November 4 Intro To Virtual Reality Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

November 4–5 Production Management For Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

November 4–18 Output For Electronic Publishers Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

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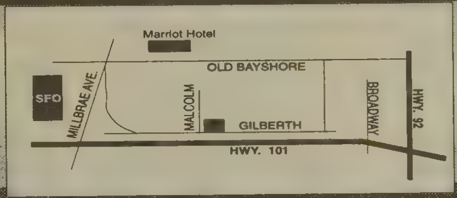

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Adventure Connection. (408)244-8160, 734-9475, 321-3661; (415)365-7002, 573-1063, 225-0263, 928-4781; (510)797-4101, 886-3837. 24 hrs. Stop playing with yourself, come play Atlantis RPG and more. Free trial. [Exp. #141.]

BayHomeNet. (408)732-1101, (415)610-6299, (510)744-0407. 8-N-1, 24 hrs., 9600. Online interactive real estate, "Bay Area Backyards" forums, rates, more! [Exp. #140.]

Calypso BBS! (415)332-5760, 452-1115; (510)538-6918, 895-6743. 8-N-1, 24 hrs., 1200–14,400. Realtime multichat, nice people, Internet email/Usenet, interactive games live. Free trial. Sysops: Larry, Moe, and Curlie. [Exp. #140.]

The Inferno. (408)225-2428, 244-0325, 749-0693; (415)261-1618, 856-8746; (510)226-1911. 8-N-1, 24 hrs., 28,800. Chat, free email, free Usenet groups, games, files! Adults only! Free trial. [Exp. #141.]

Pathway BBS. (408)956-5600, (503)226-2665, (619)699-5750, (714)236-4247, (916)454-0947. 8-N-1, 1200–14,400. Sizzling public and private chat. [Exp. #142.]

Stock Trend BBS. (510)490-7886, (408)383-0444. 8-N-1. Stock price analysis, 500+ stocks. Free demo program. Moneymaking BBS. [Exp. #142.]

209

Exxxtacy BBS. (209)962-4045. Seven CD-ROMs, DOS/Windows/OS2/adult files, free adult video w/new membership. [Exp. #142.]

Maverick's Quodtegitur BBS. (209)223-1590. 24 hrs., 28,800. DOOM, flightsims. Shareware games, cheats, editors. Door games. MatchMaker. Free. Sysop: The Maverick. [Exp. #142.]

408

Anatomically Correct BBS. (408)733-7429. 24 hrs., 14,400. Adults only. Chat, articles, X-rated personals, matchmaker, no GIFs, more. Free. Sysop: Howeird. [Exp. #141.]

Boat Sails. (408)338-7253. 8-N-1, 24 hrs., 14,400. Boat listings buy/sell, services, crew listings need/want, free/down pay/up. [Exp. #140.]

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The Checkered Demon BBS. (408)264-9018. 8-N-1, 24 hrs., up to 14,400. The premier RPG and fantasy BBS. Comics, Hero Games products, more. Sysop: John Taber. [Exp. #142.]

Citizens BBS. (408)720-8520. 8-N-1, 24 hrs., 14,400. Learn the difference between state and federal citizenship. Files/messages. Free/pay. Sysop: Gary Dunn. [Exp. #141.]

The Construction Zone. (408)255-8215. 8-N-1, 24 hrs., 1200–19,200. Free Amiga BBS. With games and access to a CD-ROM. [Exp. #142.]

Daddy & Me, Your Virtual World. (408)354-9602. 24 hrs., 14,400. Two lines. Mac and PC, games, Internet. Free. [Exp. #140.]

EarthNet On-Line. (408)244-1155. Up to 28,800. Bay Area restaurant guide; chat, games, files, forums, and email. [Exp. #142.]

El Observador. (408)372-9054, 372-1108. 14,400. Coffee, literature, UFOs, phones, 2GB shareware. [Exp. #141.]

Escape To Other Worlds BBS. (408)956-1750. 28,800. Four lines. Online matchmaking, chat, Internet, RIME, Fido, shareware, 2GB. [Exp. #142.]

Exodus/BDPA Silicon Valley Chapter. (408)654-8911. 8-N-1, 28,800. EXODUS Newsmagazine + Black Data Processing Associates. BDPANet/Afronet/Internet email. Free trial. Sysop: Willie Mackey. [Exp. #141.]

The Family Preservation Society BBS. (408)996-8473. 8-N-1, 24 hrs., 1200–14,400. Legal family and dependency issues; legal research doors and files. Free. Familynet @aol.com [Exp. #142.]

Garlique Graphics Image Center. (408)847-0665. Home of the Garlique Ladies, full Internet for members, adult CDs, instant access. [Exp. #140.]

Gray Matter BBS. (408)749-0740. 8-N-1, 14,400. Windows, multimedia, games, adult, serious fun, online games. Free/pay. Sysop: Squeeky Wheel. [Exp. #142.]

Hot City Networking. (408)848-6681 2400–28,800. Multiline. Internet access, 50+ games, email, live conf/chat. Free trial. [Exp. #142.]

The Hot Gecko BBS. (408)374-6750. DOS and Windows shareware, adult file areas. Free trial access. [Exp. #140.]

Laser Light BBS. (408)365-7778. 8-N-1, 24 hrs., 9600–28,800. Most complete archive of PC shareware games and game demos. Free! Sysop: Rob Mueller. [Exp. #142.]

Matrix Online Service (408)378-6588. Community-oriented, files, messaging, games, zines, job search, SIGs. Free access Sysop: Darryl Perry. [Exp #140.]

The Meating Place BBS (408)926-6174. 24 hrs. 14,400. Nine lines. Gay/Bi adult, email, chat, matchmaker, GIFs, XXX stories System password: MICRO [Exp. #140.]

The MicroClassified Ads (408)336-4608. 8-N-1, 24 hrs., 1200–14,400. Buy/sel any items online. Place personal ads. Free. [Exp #141.]

Monterey Gaming System (408)655-5555. 14,400. 3 lines. Free Internet email chat, contests, games Doom/Doom II. Free trial Sysop: Lisa Janakes. [Exp #140.]

Mountain Retreat BBS (408)335-4595. 24 hrs. 14,400. FidoNet, 4GB HD 22,000+ files, Turbo Pasca is the specialty. Sysop John Jamieson. [Exp #142.]

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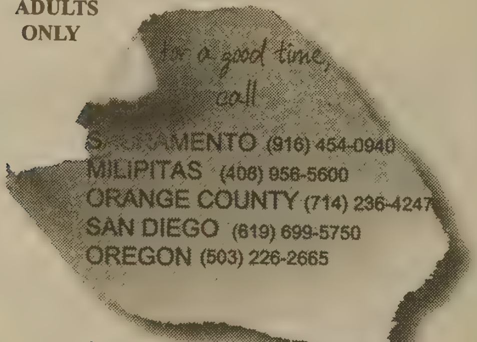

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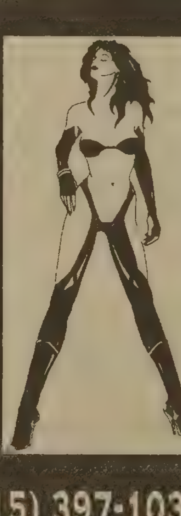

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riot, Paul Revere, Sure, Fido networks. Email. e. [Exp. #142.]

sitive Image BBS. 08)270-8997. 00–28,800. Six lines. c, PC, adult areas, and re. [Exp. #141.]

ar League BBS. 08)847-4812. 8-N-1, 24 s., 14,400. Doom!, adeWars II, and many re files. Running under wrBBS. Free. Sysop: rk Wilson [Exp. #140.]

e Support Network BBS. 08)259-0297. 8-N-1, 24 s., 2400–14,400. ADA twork, FidoNet, ABLEDA- database, Trace search Center Library es, more. Free. Sysop: nk Arnold. [Exp. #140.]

veet Whispers BBS. 08)229-9001. 8-N-1, 24 s., 14,400. Adult social twork, chat, email, rary, erotica/casino proessive slots. Free trial. xp. #141.]

nerchat BBS. (408)929-80. 24 hrs., 14,400. 20 es. Chat, mail, messges, games, Internet. 18+ ly. Free trial. Sysop: Joe am. [Exp. #142.]

PS BBS. (408)265-7529. N-1, 24 hrs., 1200–,400. Internet email, senet newsgroups, latest areware, technical support. Free/fee. Sysop: Wm Duemler. [Exp. #142.]

Tower Of Pegasus. (408)684-9042 24 hrs., (408)684-2335 4:30pm–8:00 am M–F & 24 hrs. wknds. 8-N-1, 1200–28,800. Files, EchoMail, PGP, X-Net. Free: Sysop: Marc Jacobs. [Exp. #140.]

VidGam2 BBS. (408)737-7791. 28,800. Adult GIFs, games, 1000s utils., free Internet newsgroups, email, FTP-mail, Fido. Sysop: Marcelo Hassmer. [Exp. #141.]

The Warped Disk. (408)288-6890. Files, chat, photo database. Now running WorldGroup! Free Windows terminal interface! Free/pay. [Exp. #140.]

Yurope BBS. (408)257-5071. 24 hrs., 14,400. News, info, files on former Yugoslavia. Internet, mailing lists, GIFs. Free/pay. Sysop: Miroslav Dragojevic. [Exp. #140.]

415

007 1/2 BBS. (415)387-7229. 8-N-1, 24 hrs., 1200–14,400. Two lines. Asian GIFs, utils., games, LORD. Free/pay access. [Exp. #142.]

Airtight Garage. (415)641-0348. 8-N-1, 24 hrs., 300–28,800. FidoNet/Internet motorcycling, science fiction and Libertarian msg. areas. Free. Sysop: Carlos. [Exp. #140.]

BayBytes BBS. (415)327-2098. 24 hrs., 2400–28,800. Infotainment, Internet email, chat, games, networking for small/home business. Free trial. [Exp. #141.]

Breaking Bay BBS. (415)566-0385. 24 hrs., 300–14,400. NoCal's SCUBANET supporting SCUBA diving and underwater photography, three CD-ROMs. Free. Sysop: Charlie Eng. [Exp. #141.]

Dark Side Of The Moon. (415)348-1831. 24 hrs., 14,400. Aragon High School's BBS. Excellent school-related message bases, files. Sysop: Aragon Don. [Exp. #142.]

DeaD PoinT. (415)992-4320. 8-N-1, 24 hrs., 2400–28,800. 1.2GB of shareware programs, 40+ games, FidoNet, CD-ROM. Sysop: Christopher Jong. [Exp. #141.]

Flying High BBS. (415)467-2303. 24 hrs., 9600–28,800. Gay/straight XXX Asian, games, L.O.R.D., 18+ verification for adult access. Free. [Exp. #141.]

Games & Stuff. (415)369-1110. 8-N-1, 14,400. Internet newsgroups, email. 20,000+ games, GIFs, utils, 4.5GB. Free/pay. Sysop: Paul Langston. [Exp. #141.]

Golden Gate Computer Society BBS. (415)457-2516. 24 hrs., 14,400. 2GB of files, 30 min/day free. ILink, Cal.Link: free. Usenet and Internet email: $24/year. [Exp. #142.]

IBBS West. (415)564-9440. 8-N-1, 24 hrs., 300–28,800. PC and compatibles, shareware, utils., adult GIFs, CD-ROM 13,000 files. Fee. [Exp. #142.]

Information Exchange BBS. (415)282-3823. 14,400. 2.8GB online, multiline chat, coast-to-coast RaVeNET hub. Free. Sysop: Aztek. [Exp. #140.]

Information Resources Online. (415)753-5121. 8-N-1, 24 hrs., 14,400. Homeowner and building topics, full text searching, online book catalog. Free access. [Exp. #140.]

Intimate Images. (415)598-0898. 1200–28,800. Original adult images and video clips. Free samples. No hourly fees! [Exp. #141.]

Jabba's Palace. (415)876-7022. 9:00 am–10:00 pm (tentative), 9600–14,400. Many messages, conferences, files, HK/anime/ adult GIFs. New Board! Free/donation. [Exp. #140.]

Kewl BBS. (415)592-8520. 24 hrs., 2400–28,800. Games, files, forums, Action teleconference. Major BBS. [Exp. #141.]

Lincoln's Cabin BBS. (415)752-4490. 2400–28,800. Internet email, Usenet, RIME, files. Low subscription rates. Free trial. [Exp. #141.]

Los Altos Online. (415)948-4148. 24 hrs., 28,800. Family-oriented, no adult material, your favorite newsgroups added free. Free. [Exp. #142.]

The MacDaddy BBS. (415)587-9052. 24 hrs., 14,400. Usenet, BayONLINE, FringeNet, Mac/Win files. Sysops: Jonathan Mergy, Robert Pomon. [Exp. #142.]

Mental Ward BBS. (415)322-2344. 8-N-1 and 7-E-1, 14,400. Free BBS running Wildcat! 4.11. Mainly doors but a few files. Sysop: Ian Turner. [Exp. #142.]

The Mother Ship. (415)665-5496. 8-N-1, 24 hrs., 14,400. How to legally stop paying federal income tax, leading-edge consciousness. [Exp. #142.]

The Nerdshack. (415)681-1724. 8-N-1, 24 hrs., 14,400. Internet email and news, chat, files, games, other nerdly fun! Free. Sysop: Porter Venn. [Exp. #140.]

The Online Islamic Bookstore & BBS. (415)969-7335. 8-N-1, 24 hrs., up to 14,400. Latest Islamic books, CD-ROMs, and software; knowledge files and more. Free 1hr./day. [Exp. #141.]

The Pyramid/2 OS/2 BBS. (415)494-7497. 8-N-1, 24 hrs., 2400–14,400. Provides the latest in OS/2 files, information. Files added daily. Free. Sysop: Sven Sampson. [Exp. #140.]

realitycheckBBS. (415)648-9489. Freedom of Information, cigars, tech, text files, much more. NIRVANAnet. Sysop: Poindexter Fortran. [Exp. #142.]

Recovery BBS. (415)255-2188. 8-N-1, 24 hrs., Dedicated to 12-step recovery programs: AA, NA, Al-Anon, OA. etc. Fido 1:125/9. Free. Sysop: Rich Gorin. [Exp. #140.]

San Francisco Online. (415)673-8334. 24 hrs., 14,400. PC/Windows required. Full multimedia interface. Free classifieds. Files, GIFs. Free/pay. Sysop: Debbie Hanson. [Exp. #142.]

Senior Information Online. (415)697-0520. 8-N-1, 24 hrs., up to 14,400. Senior resources, retirement planning, info on Social Security, Medicare, etc. Free. [Exp. #141.]

Top Gun BBS. (415)221-9366. 24 hrs., 300–14,400. 15+ games, lots of files, messages, etc. Int. Bre coming soon. Free! [Exp. #140.]

TripLine BBS. (415)341-8248. 8-N-1, 24 hrs., 2400–14,400. New BBS on the block! Files, games, GIFs, chat, more. No fee. [Exp. #141.]

Uncle D's Directory. (415)364-3001. Five V.34 lines. Internet email, RIME, conferences, chat, stores, files, more. Free/fee. Sysop: Dave Spensley. [Exp. #141.]

Urbanite BBS. (415)528-6602. 8-N-1, 24 hrs., 57,600. DOOM game connection, chat, Internet, Windows, multimedia, huge download. Free. [Exp. #141.]

VidGame BBS. (415)742-6486, 369-7356; (510)601-0771. 28,800. Nine nodes. Adult files; 1000s utils.; Internet newsgroups, email, and FTP-mail; more. Sysop: George Hassmer. [Exp. #142.]

510

Albatross! Gardening Club. (510)449-8750. 8-N-1, 24 hrs., 28,800. IBM games, DOS/Windows utilities, shareware; Mac files, MVP Software, more.

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BULLETIN BOARDS cont.

Sysop: Paul George. [Exp. #141.]

Amiga Addicts Anonymous BBS. (510)680-2850. 24 hrs., 1200–14,400. Amiga files only. Free. Sysop: Stanley Poland. [Exp. #141.]

Awaiter BBS. (510)939-9992. 24 hrs., 28,800. Internet, newsfeeds, email, OPUS, UFO, paranormal, anarchy, files, games. Free. [Exp. #141.]

Bay Area Mega Board. (510)247-8300. 24 hrs. 16 lines. Files, chat, FidoNet, adult/general, 18+ years old. Free/fee. Sysop: Sam Thompson [Exp. #141.]

Beyond Infinity BBS. (510)283-1269,,,*3. L.O.R.D., Usurper, many women in bikinis, messages netted on VirtualNET. [Exp. #141.]

Bust Out BBS. (510)888-1443. 24 hrs., up to 28,800. 30+GB, huge msg. and file network including Internet (many adult), more. Sysop: Alex J. Riggs. [Exp. #140.]

Caxius BBS. (510)895-6961. 24 hrs., 300–14,400. 100+ message bases, active debate forum, 50+ file areas, more. Free! Sysop: Ed Correia. [Exp. #141.]

For God's Sake BBS. (510)614-8405. 8-N-1, 24 hrs., 300–2400. Discussion on spiritual topics. Invitation to events. [Exp. #141.]

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Gold Diggers BBS. (510)568-7807,,,23,23. 24 hrs., 2400–28,800. IBM, Atari ST, Amiga, Mac, files, games, and messages. $10/year. Sysop: Harry Goldberg. [Exp. #142.]

Greater Light BBS. (510)724-9296. 24 hrs., 14,400. Free Christian BBS. Thousands of files, lots of message bases. Sysop: Michael Bryant. [Exp. #141.]

The Jungle! (510)471-6714. 24 hrs., 2400–14,400. Online games, files, and conferences. Featuring a competitive LORD game. Free. Sysop: David Godinez. [Exp. #140.]

K 3's Over The Wire Resumes. (510)370-3719. 90-day free resume listing. Free job hotlines. [Exp. #140.]

KanonTech BBS. (510)235-6839. any parameters, 24 hrs., 14,400. Martial Arts net, registered online games, 1GB of files. Free. Sysop: Kanon Kubose. [Exp. #140.]

Maddog! BBS. (510)895-8089, 483-0203. 24 hrs., 2400–28,800. 10 CD-ROMs, online games, FidoNet, HotNet, Raider and 49er echos, files. Sysop: Troy Earp. [Exp. #142.]

The Phantom Zone BBS. (510)538-9586. 8-N-1, 24 hrs., 300–14,400. Three lines. Files, messages, games, echo mail, FidoNet, Internet email. [Exp. #141.]

Single Life. (510)796-2895. 8-N-1, 24 hrs., 2400–14,400. A BBS for singles. Local events listing, messages, matchmaker. Free trial. [Exp. #141.]

The Stage. (510)251-2431. 24 hrs., Pagan-oriented BBS. PODSnet, VORTEXnet. Magickal library. Join the play. [Exp. #140.]

Terminal One BBS. (510)689-9528. 28,800. Four lines. Files, games; Free Internet email, newsgroups. Multinode chat. [Exp. #142.]

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Vampire's Den BBS. (510)536-2640. 8-N-1, 24 hrs., 1200–14,400. Adult-related Doors, files, and message areas. Free. Sysop: Harley Dude. [Exp. #142.]

VisionBytes! (510)355-0968. 28,800. Visioncare topics, referrals. ASP, Apogee, Epic, FidoNet. WorldGroup for Windows. Free. [Exp. #142.]

The VisualAge BBS. (510)685-9585. 8-N-1, 24 hrs., 2400–14,400. Multichat, local echomail nets, doors, three CD-ROMs, Internet email soon. Free/pay. Sysops: David Afana, Gus Damian. [Exp. #142.]

Windows OnLine. (510)736-8343. Largest Windows BBS. Members receive free Internet email, 30,000 Win 3.x files. Free trial. [Exp. #140.]

Wishing Well BBS. (510)745-7901. 1200–14,400. 95+ games, quality files, supports ANSI and RIP, adult files, more. Sysop: MaryLou White. [Exp. #140.]

707

Flight Line International. (707)434-1826. 24 hrs., 14,400. Airline employment, job postings, pilots, flight attendants, mechanics, ground crews, more. [Exp. #140.]

The Party Line BBS. (707)542-3193. 24 hrs., up to 14,400. 12 lines. General entertainment, chatlink each night, home of Excalibur! Free/fee. [Exp. #141.]

Zephyr—The Ultimate CyberBreeze. (707)421-1500. 24 hrs., 2400–28,800. Excalibur system with Internet, games, news, contests, music, files, comics. Free/fee. Sysop: John Zimmerman. [Exp. #142.]

USER GROUPS

AMIGA

AUM—Amiga Users Of Marin. Meetings: 3rd Tues., 7:30 pm. College of Marin, Science Center, Room 191, Kentfield. Call: (415)924-5384. [Exp. #140.]

AWEST Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415)474-1164. [Exp. #142.]

FAUG—First Amiga User's Group. Meetings: 1st Tues., 7:30 pm, HT Electronics, 275 N. Mathilda Ave., Sunnyvale. Q&A, new product demos, public domain software. Call: Mike Fischer, (415)855-9816, BBS (415)341-7566, *mikef@vid.hp.com* . [Exp. #140.]

RAACOON (Redding Area Amiga Commodore Owners/Operators Network). Amiga/Commodore 64/128 support group. $25/year including BBS access. BBS (916)247-1232. Call: Jeff King, (916)221-2651. [Exp. #142.]

RE-Amiga—Redwood Empire Amiga Users Group. Meetings: 2nd Tues., 7:30 pm, Sonoma State University, Darwin Hall, Rm. 121, 1801 East Cotati Ave., Rohnert Park. Call: (707)523-9978 or BBS (707)539-6944. [Exp. #140.]

APPLE

PAUG—Peninsula Apple User Group. Meetings: 3rd Thurs., 6:30 pm, Computer Attic, 2750 El Camino Real, Redwood City. Beginners and advanced, question and answer, new product demos, public domain software. Call: Ted Wagner, (415)345-0751. [Exp. #140.]

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #144.]

ATARI

Bay Area Atari Users Group. Meetings: 1st Mon., Agnews Development Center West Campus Auditorium, San Jose. Write: c/o 3691 Eastwood Cir., Santa Clara 95054-2121. Call: Steven Lee, (408)988-3878. [Exp. #144.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp. #144.]

CAD

MAUG—Marin AutoCAD Users Group. Meetings:1st Thurs., 6:30 pm, Autodesk, 111 McInnis Pkwy., Demo Rm., San Rafael (next to Embassy Suites). Call: Priscilla Mills, (415)453-4480. [Exp. #142.]

San Francisco AutoCAD User's Group. Meetings: 1st Mon., 6:00 pm, SFSU Downtown Center, 425 Market St., San Francisco. Door prize every meeting. Call: (510)420-0925. [Exp. #143.]

South Bay AutoCAD Users Group. Milpitas. Call: (408)282-4448. [Exp. #144.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Call: (510)531-3734 or 793-7868. [Exp. #145.]

CWEST C64/128. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call: (415)626-9946. [Exp. #142.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Call: (510)689-3224. [Exp. #143.]

RAACOON (Redding Area Amiga Commodore Owners/Operators Network). Amiga/Commodore 64/128 support group. $25/year including BBS access. BBS (916)247-1232. Call: (916)221-2651. [Exp. #142.]

DESKTOP PUBLISHING

Bay Area Corel Artists And Publishers (BAYCAP). Meetings: 1st Mon. (2nd if holiday), 7:30 pm, Varian Associates, Bldg. 7, 3075 Hansen, Palo Alto. $5 for nonmembers, membership is $35/year. Call: (408)252-5586. [Exp. #143.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor—near 1st and Mission, San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp. #145.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Call: (510)943-1367. [Exp. #142.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Call: (510)653-2527, 8 am–10 pm. [Exp. #145.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556. [Exp. #145.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm, Call: Lee Schwab, (707)257-2675 or *lee@community.net* for details and location. [Exp. #144.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Call: (510)276-6450 or 538-2449. [Exp. #144.]

PC Users Group Of The Redwoods. Meetings: 2nd Thurs., 6:30 pm, Santa Rosa Veteran's Memorial Building, East Dining Room, Maple Ave., Santa Rosa. Call: (707)527-USER; or Mel Del Gallo, (707)571-0373. [Exp. #141.]

San Francisco Computer Society. Meetings: 4th Mon., 7:00 pm, Presbyterian Church, 1329 7th Ave., San Francisco. CP/M and DOS, novices welcome. Call: Bob Forsberg, (415)885-6202. [Exp. #143.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, St. Mary's Cathedral, 1111 Gough St., San Francisco. Call: (415)777-1332 or David Hyman, (415)561-1250. [Exp. #145.]

Silicon Valley Computer Society—SVCS. Meetings: 2nd Wed., 7:30 pm, Hewlett-Packard, Bldg. 48, Oak Room, 19483 Pruneridge Ave., Cupertino. Call: (408)956-0864; BBS, (408)956-0317. [Exp. #144.]

Software Forum (formerly SEF) Business Operations SIG. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Mike Schmit, (408)244-6826. [Exp. #145.]

Software Forum (formerly SEF) International Software SIG. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10 Call: Charlie Pfefferkorn, (408)923-7570. [Exp. #145.]

South Bay WordPerfect User Group. Meetings: 4th Tues. (no Dec. meeting), 6:45 pm, Novell, 2880 Lakeside, Suite 300, Santa Clara. WordPerfect for Windows product presentations and education. Free. Call: Scott Maiden, (408)253-4591. [Exp. #145.]

Stanford Palo Alto PC Users Group. Meetings: last Wed., 7:30 pm, Varian, 3075 Hansen Way, Bldg. 7, Auditorium, Palo Alto. Call: Beverly Altman, (415)329-8252. [Exp. #145.]

INTERNET

Old Town News & Coffee Internet Users Group. Meetings: every Thurs., 7:00 pm, Old Town News & Coffee, 926 Grant Ave., Novato. Hooked staff on hand to discuss setting up Web pages. Call: (415)897-4419 or *oldtown@hooked.net* or *http://hooked.net/users/oldtownnews* . [Exp. #143.]

Software Forum (formerly SEF) Internet SIG. Meetings: 2nd Wed., 7:30 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Walt Schilling, (415)390-9477. [Exp. #145.]

Tri-City Internet Group. Meetings: 2nd Tues., 7:00 pm, Fremont main library, 2400 Stevenson Blvd., Fremont. Beginners and advanced users, discussions, Q&A, and demos. Call: Andy, (510)494-5400. [Exp. #145.]

LEGAL

BMUG Law SIG/Law SIG South. Meetings: 2nd Wed., 6:00 pm, Nossaman, Guthner, Knox & Elliot, 50 California St., 34th Fl., San Francisco. Call: Randy, (916)661-2280 or *rbs@aol.com*; or Ted, (415)383-4783 or *tllindberg@aol.com* . [Exp. #143.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St., San Francisco. Brown bag meetings. Call: (415)421-5650. [Exp. #142.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)263-0398. [Exp. #145.]

BMUG—Berkeley Macintosh User Group. Meetings: every Thurs., 6:00 pm, Warren Hall, Rm. 22, UC Berkeley campus. Call: (510)549-BMUG. [Exp. #143.]

BMUG West. Meetings: last Mon., 6:30 pm, San Francisco Exploratorium. Call: (510)549-BMUG. [Exp. #143.]

CMUG-Christian Macintosh User Group. Meetings: 1st Thurs., 7:00 pm, San Jose. Learn more about your Mac. Monthly newsletter. Call: Rick Thrasher, (408)945-4773 or *RickT5@aol.com* . [Exp. #144.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft School, 2200 Parish Dr., Walnut Creek. Get together with Mac and Performa users. Enjoyable SIG meetings. Call: Tom Bacon, (510)945-4548. [Exp. #142.]

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Call: Roger Sherman, (415)859-5146. [Exp. #145.]

Macs Of Marin. Meetings: last Wed., 7:30 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 7:30, meeting 8:00, members free, nonmembers $5. Call: Richard, (415)485-5596. [Exp. #140.]

PAUG—Peninsula Apple User Group. Meetings: 3rd Thurs., 6:30 pm, Computer Attic, 2750 El Camino Real, Redwood City. Beginners and advanced, question and answer, new product demos, public domain software. Call: Ted Wagner,

USER GROUPS cont...

(415)345-0751. [Exp. #140.]

San Leandro Apple Eaters Users Group (MUG). Meetings: 1st Thurs., 7:30 pm, San Leandro High School, Rm. 204, 2200 Bancroft Ave., San Leandro. Call: Stan (510)351-3973 or Ed (510)651-8521. [Exp. #140.]

Software Forum (formerly SEF) OpenDoc/Macintosh SIG. Meetings: 3rd Tues., 7:00 pm, Apple Computer, R&D Bldg. 4, 4 Infinite Loop, Cupertino. $10. Call: Tony Meadow, (510)644-9400. [Exp. #145.]

SPC Apple User Group. Meetings: 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: (510)881-9160. [Exp. #144.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Beginners to experts; library, newsletter, SIGs, and a BBS. Call: Dan, (510)462-0894. [Exp. #142.]

MISCELLANEOUS

California Genealogical Society SIG. Meetings: 2nd Sat. odd months, CGS Library, 300 Brannan St., 4th Fl., San Francisco. All makes, models, and software welcome. Call: Dave Wilma, (415)681-5131 or *DavidWilma@aol.com* . [Exp. #144.]

MOBILE

Software Forum (formerly SEF) Mobile/Wireless SIG. Meetings: 4th Wed., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Dick Roistacher, (415)591-8236. [Exp. #145.]

MULTIMEDIA

Authorware User Forum. Meetings: last Tues. (except Aug./Dec.), 6:30 pm, Scitor Corp., 256 Gibraltar Dr., #C1, Sunnyvale. $5. Call: (510)736-5245. [Exp. #144.]

Macromedia User Group. Meetings: 1st Tues., 6:00 pm, 600 Townsend St. at 7th, San Francisco. For multimedia developers of all levels who use MacroMedia products. $5. Call: (415)252-2295. [Exp. #141.]

Software Forum (formerly SEF) Multimedia SIG. Meetings: 4th Thurs., 7:00 pm, Center for Software Development, 111 W. St. John Street, Suite 200, Downtown San Jose. $10. Call: Dave McCutcheon, (415)506-4238 or Charlie Pfefferkorn, (408)923-7570. [Exp. #145.]

NETWORKING

Apple Network Manager's Association. Meetings: 3rd Thurs., 5:30 pm, Syntex Laboratories, Palo Alto. A forum for discussing problems and solutions associated with managing mixed environments with AppleTalk networks. Call: Bill Woodcock, (510)843-6369, email *woody@zocalo.com* for directions. [Exp. #143.]

Software Forum (formerly SEF) Client/Server SIG. Meetings: 4th Tues., 7:00 pm, Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Patrick O'Brien, (415)726-4664. [Exp. #145.]

NEXT

BANG—Bay Area NeXTStep Group. Meetings: 3rd Thurs., 7:00 pm, Stanford Linear Accelerator Center, 2725 Sand Hill Rd., Menlo Park. For NeXTStep/OpenStep users, technical support questions, demos, development tips. Call: Mike Gabrys, (415)327-BANG; email: *info@bang.org*; WWW: *http://www.bang.org/* . [Exp. #142.]

NOVELL

Monterey Novell User Group. Meetings: 3rd Thurs., 40 Ragsdale Dr. in Ryan Ranch off Hwy 68 in Monterey. Call: (408)645-2475. [Exp. #144.]

OS/2

OS/2 BAUG Developers SIG. Meetings: 2nd Mon., 7:00 pm, IBM, 1055 Joaquin Rd., Mountain View. Call: (510)945-7565, ext. 100. [Exp. #145.]

OS/2 BAUG Enterprise SIG. Meetings: 3rd Mon., 7:00 pm, IBM, 425 Market St., 22nd floor, San Francisco. Call: (510)945-7565, ext. 100. [Exp. #145.]

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:00 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. For anyone interested in OS/2. Presentations, demonstrations, question and answer session. Call: (510)945-7565 ex. 100. [Exp. #145.]

PARADOX

bapals (Bay Area Paradox User Group). Meetings: 4th Tues., 5:00 pm, 799 Market St., 8th Floor, San Francisco. Call: (415)995-4688. [Exp. #142.]

Silicon Valley Paradox Users Group. Meetings: 3rd Tues., 7:00 pm, Tandem Computers, 10100 Tantau, Cupertino. User group of the Silicon Valley Computer Society. Call: Scott Jackson, (408)738-0424. [Exp. #145.]

PROGRAMMING LANGUAGES

Silicon Valley Delphi SIG. Meetings: 1st Thurs., 7:00 pm, Loral Systems, 1260 Crossman, Sunnyvale. Special interest group of the Silicon Valley Computer Society. Call: Scott Jackson, (408)728-0424. [Exp. #145.]

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Call: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #145.]

Software Forum (formerly SEF) Advanced C/C++ SIG. Meetings: 2nd Fri., 6:15 pm, UC Santa Cruz Extension, 3120 De La Cruz Blvd. (Trimble at 101), Santa Clara. $10. Call: Marian Corcoran, (408)973-1662. [Exp. #145.]

Software Forum (formerly SEF) Visual Basic SIG. Meetings: 2nd Thurs., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Allan Colby, (415)851-4567. [Exp. #145.]

SILICON GRAPHICS

Bay Area Silicon Graphics Users Group—BASGUG. Meetings: 3rd Tues., 7:00 pm, SF Academy of Art College SGI Lab, 79 New Montgomery St. at Mission, San Francisco. Dedicated to providing advanced information and education for SGI systems. Call: Doug Cain, (415)346-6150. [Exp. #140.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need soft-/hardware? Call: Fred, (510)530-8335. [Exp. #144.]

UNIX

AT&T UNIX Computer Users Group. Call: Thad Floryan, (415)961-5157. [Exp. #145.]

Software Forum (formerly SEF) Open Systems SIG. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. $10. Call: George Bosworth, (415)851-3304. [Exp. #145.]

VIRTUAL REALITY

Virtual Valley, The Silicon Valley And South Bay Virtual Reality Users' Group. Meetings: every two months (last meeting June 15). Fun, information, networking, job leads, technical demos, speakers. $5. Call: Cleopatra Alfenito, (415)824-2536 or email: *virtual_valley_admin@gravity.com* . [Exp. #142.]

WINDOWS

Software Forum (formerly SEF) Windows SIG. Meetings: 1st Wed., 6:30 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $15. Call: Fran Finnegan, (415)288-4400. [Exp. #145.]

Is Your Listing Missing?

Free user group and association listings are limited to the group's name, meeting information, contact name and phone number, and a ten-word description. They will be **deleted at six-month intervals** to ensure timeliness and accuracy of information.

Free BBS listings are limited to the board's name, phone number, hours, baud rates, parameters, and a ten-word description. Please let our readers know if your BBS is free or requires a fee. Because we have an ongoing problem of boards shutting down without telling us, much to the annoyance of would-be callers and the new phone number's owner alike, we will **delete these listings after they've run three months.** The notice at the end of the listing—Exp. #xxx—refers to the last issue number it will appear in unless renewed.

You can update or renew your listings at any time. If yours is missing, send your listing information to:

US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-3958. **Email** can be sent to: JohnDownen@aol.com or *MCI:MICROTIMES*.

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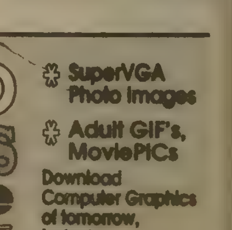

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Resources

ASSOCIATIONS

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp. #145.]

Bay Area Association Of Entrepreneurial Software Engineers. Meetings: 1st Tues., 6:30 pm. Dinner, lectures, discussion, brainstorming, networking, product development, financing, marketing, distribution. Call: Dr. Ipser, (510)494-8765. [Exp. #145.]

Bay Area Video Coalition. A place for independent videomakers to communicate with each other and the larger media community. $10 for nonmembers. Call: Anne Etheridge, (415)861-3282. [Exp. #140.]

Black Data Processing Associates, Silicon Valley Chapter. Meetings: 4th Thurs., 6:30 pm, Amdahl Corp., Bldg. H, 1240 E. Arques Ave., Sunnyvale. National network of DP professionals, educators, students, and vendor reps. Call: Willie Mackey, (408)280-7624 or email: *wjmackey@bdpabac.com* . [Exp. #140.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification, topical programs, seminars, job bank. Call: (408)365-9815. [Exp. #145.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. Provides resources for self-service testing, prototyping, and porting on many different platforms. Call: (408)494-8378. [Exp. #145.]

Computer Professionals For Social Responsibility/Berkeley Chapter. Meetings: last Sun., 3:00 pm, BMUG Offices, 2055 Center St., Berkeley. Meetings are open to the public and free. Call: Karen, (510)987-0567 or *cpsr-berkeley@cpsr.org* . [Exp. #140.]

Computer Software Industry Association. An association working to keep California safe for the software industry. Call: Kaye Caldwell, (408)479-8743; email: *kaye@ix.netcom.com*; Web page: *http:// www.well.com/user/ csia/* . [Exp. #145.]

Independent Computer Consultants Association. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers. Call: (415)399-0305. [Exp. #145.]

International Interactive Communications Society. Meetings: 2nd Tues. Professional association for individuals involved in multimedia, from marketing to graphics and programming. Call: (415)553-2202. [Exp. #142.]

National Writers Union. Meetings: 1st Wed., location changes. Monthly meeting for professional technical writers. Call: Andreas, (415)333-0921 or email: *andreas@ netcom. com* . [Exp. #140.]

North Bay Information & Technology Association. Meetings: monthly, North Bay's premier trade organization for software and information technology professionals. $20 for nonmembers. Call: 1-800-457-5570 or (415)382-1108. [Exp. #141.]

Rexx Language Association. A consortium of those who deal at some level with the Rexx language. For membership info send name and address to *pjt@wrkgrp.com* or RexxLA Membership, 6300 N. River Rd., Ste. 501, Rosemont, Ill 60018; fax (708)696-2277. [Exp. #140.]

Society For Technical Communication, Silicon Valley Chapter. Meetings: 3rd or 4th Thurs., 5:30 pm refreshments, 6:30 pm dinner, 7:15 dessert. Sunnyvale Hilton, 1250 Lakeside Drive (off Lawrence Expressway at 101). Guest speakers, special interest groups, networking, job listings, newsletter. Call: (408)737-9426. [Exp. #143.]

Software Forum (formerly SEF). Meetings: 3rd Wed., 6:30 pm, Elks Lodge, 4249 El Camino Real, Palo Alto. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Call: Barbara Cass, (415)854-7219. [Exp. #145.]

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What?!
(See Multimedia & Beyond for details.)

For coverage of what people are using and what they're doing with it in the **multimedia** scene—as well as juicy gossip on how they're doing it—check out Multimedia & Beyond.

Telecommuting

continued from page 60...

and windows to keep copier, faxes, computers, printers, and telephones safe from unauthorized persons. At the least, you might install a secure and fire-proof filing cabinet in which to store the most precious materials you bring away from the office.

From a personal point of view, it's important to do something about security because in the event the situation turns ugly and there's a lawsuit against you, your history of sincere efforts to provide a reasonable level of protection can significantly lower your liability, when compared with what you might be asked to pay if you had done nothing about security.

Telecommuting In The Entertainment Industry

No, we're not at the point where Marlon Brando can phone in his next film performance from his private island in the South Pacific, but there are more and more opportunities to work in the "entertainment industry" via telecommuting.

Right now one of the most exciting new developments is called E.D.-Net, the San Francisco-based Entertainment Digital Network. The system uses fiber-optic cables and digital signaling equipment to interconnect some eighty film- and music-industry sound studios and editing centers.

The digital connections carry high-quality audio, video, and multimedia data from one facility—even one city—to another. The result is that musicians can record a song in one place, have it edited and mixed in another place, and have it made into CDs in a third place—all without anyone having to climb aboard a jet plane or even drive their car more than a few miles.

One early example of E.D.-Net in action was Ben Kingsley's work rerecording several spoken parts for the film Searching for Bobby Fischer. He worked from London, while the editing was done in Hollywood. E.D.-Net has helped with other projects, too, such as Tom Selleck recording his speaking parts for some AT&T commercials, and Frank Sinatra singing duets with Liza Minelli in Brazil and with Bono in New York.

Lucas Digital's Skywalker Sound South facility, in Santa Monica, California, is connected to its Northern California sister facility by E.D.-Net lines, which allows directors like Ron Howard to control dubbing work and supervise audio mixes from hundreds of miles away, as he did for the film *Backdraft.*

E.D.-Net says entertainers are showing more and more preference for working from rural and resort areas, closer to their families, without the usual long commutes to production centers like Los Angeles and New York. Sites on the digital network can provide all the same functions as the central sound studio, except that the microphone or camera cable is thousands of miles long.

Even individuals are logging onto the network. Gloria Estefan, an adventurous and high-spirited singer, will reportedly fork over nearly $10,000 to permanently connect her in-home studio to the E.D.-Net system. For video connections, the costs can run to double that amount.

As computer equipment and network costs continue to come down, expect more and more industries to find digital telecommuting systems like E.D.-Net far less expensive than the heavy costs and personal hassles associated with physical travel to distant locations.

For more information, contact E.D.-Net at (415)274-8800.

Telecommute '95 Conference

November 7–10, 1995, are the dates for Telecommute '95, the high-level conference sponsored annually by Gil Gordon, this year in conjunction with 3COM and the Incoming Calls Management Institute.

Sessions will cover the telecommuting-related aspects of such topics as: Staffing the Virtual Organization; Deconstructing Corporate Real Estate; Hoteled Office Space; ISDN; Using the Internet; Moving From Pilot Projects to Production Implementations; Office Design; Cost-Benefit Analysis; and Evaluations; along with Case Studies of such firms as Chiat/Day and Aegon Insurance.

Scott Adams, creator of the "Dilbert" comic strip which last year featured several days' worth of jokes about telecommuters, will be on hand to offer special insights and more than a few laughs.

Those interested in receiving more details about the Telecommute '95 Conference can obtain an announcement and registration package by calling 1-800-854-0056 (or faxing 410/267-0962). ■

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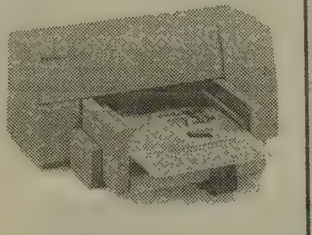

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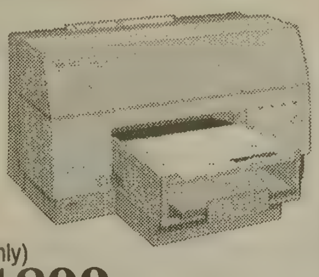

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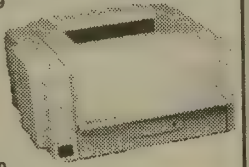

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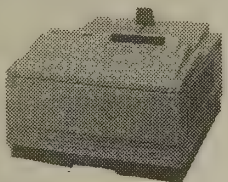

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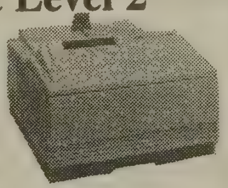

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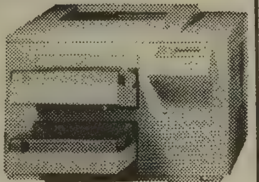

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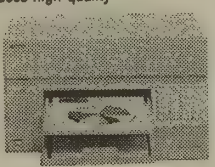

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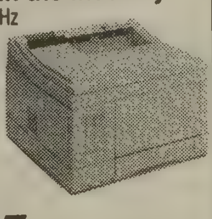

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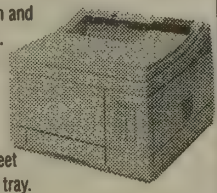

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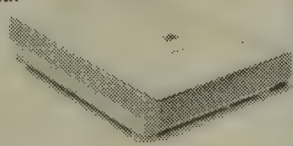

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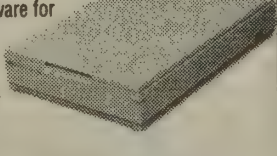

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OS/2 *continued from page 76...*

FaxWorks version.

FaxWorks was initially and still is a good fax application. Its direct support for the SatisFAXtion/400 faxmodem is a considerable plus for OS/2 because, as I explained in previous columns, fax processing is offloaded to the 400's fax co-processor, relieving the PC's CPU for other tasks. The software has not been significantly upgraded for quite a while—for example, it still does not have a thumbnail view of faxes. Support by the marketer, SofNet, has not been much different from Lotus's, as the complaints in their CompuServe forum indicate, and has deteriorated even further after the company's acquisition by Global Village (which why I resorted to the development version). F example, sometimes fax reception fails, but have not been able to figure out the source the problem and get it fixed.

Incidentally, Intel's SatisFAXtion line was sol to PureData. Initially they expressed commi ment to OS/2, but now they say support vi FaxWorks is enough. A 28,800 V.34 version of th SatisFAXtion is in the works, but it is not clea yet whether FaxWorks support will be extende to it.

TE/2: Aside from the specialized access t CompuServe mentioned above, I use this communication application just for accessing OS/ BBSes and browsing for interesting and usef software and information. I've tried many OS/ communication packages which are GUI/WPS based and loaded with features (such as ZO and the much praised RhinoComm) but I'v always come back to the older TE/2. I actuall prefer its character base for communications although I do wish it had a mouse interface an more OS/2-like configuration facilities

FastBack: In a previous column I reviewe BackMaster, which I have been using wit Iomega's Parallel Port II tape drive fo backup/restore. But I would prefer th Bernoulli to tape—it's faster and less fussy There are several backup applications for OS/2 but most support only tape (or diskettes).

Symantec's FastBack Plus for OS/2 was ver promising when it came out more than a yea ago—that's when I got my copy—not onl because it supported the Bernoulli, but als because it was designed to exploit OS/2 an particularly the WPS. Unfortunately, it has suffered from neglect too. It would not work wit Warp, and users in the Symantec forum o CompuServe complain bitterly about promise for a fix that did not materialize for months. Th fix was released recently, with mixed reactions—it seems to work with the Bernoulli, bu not others with tape. The company is not ver responsive.

Occasional Use

There are some utilities and applications that use occasionally as needed and which I mentioned in previous columns. **PartitionMagic** manipulates hard drive partitions nondestructively. **Performance Plus** tests and helps fine tune performance. **PMPatrol**, among othe

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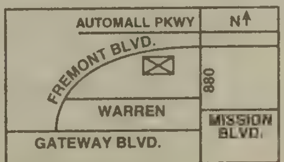

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things, shows the memory usage by OS/2 and applications.

In The Pipeline

It is important to realize that the above set represents about 10% of all applications I looked at, and the ratio does not seem to be improving.

I looked at a couple of financial applications, but I still have not adopted one. I have been waiting for a copy of a product called **MoneyWiz** for about a month.

I am also revisiting scanning under OS/2, looking at several programs—Applause, **Impos/2**, **UniteLite** (and **CopyShop/2** mentioned above).

I am still using good old **PC-Write for DOS**. I looked at **DeScribe**, but was not excited (perhaps because it was overkill for my needs) and it seemed that its developer was "deemphasizing" OS/2 involvement. **AmiPro** for OS/2 was initially (and still is) slow, and also too loaded. It is not clear what the status of Lotus's new word processor, **WordPro**, will be—prior to the IBM acquisition it looked as if the Windows 95 version was going to precede it (again!)—but I will look at an OS/2 version if and when it becomes available. In the meantime I'm looking at a beta version of a shareware product—**Escriba**.

I am constantly on the lookout for other good OS/2 applications and will report on these and any interesting ones I come across. If you use any good ones, please bring them to my attention. ■

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CompuServe: 73023,3037

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CompuServe: 76070,626

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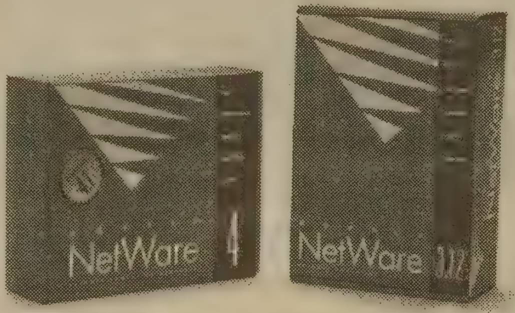

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Backup Director NLM 1 SVR	585
Backup Director NLM Multi-Server	1,011
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EPS2015-041 EtherSwitch 15-pt	4,888
NLM Load Balancing Software	441
SMC TigerSwitch XE 24-pt	6,926

Remote Access

CITRIX WinView Software 10-User	2,354
NOVELL NetWare Connect 2/8/32 pts	380/1,528/4,491
NetWare Connect 2-port w/Modem and Serial I/O	1,064
NetWare Connect 8-port w/Modem and Serial I/O	4,055
HEWLETT PACKARD AdvanceStack Dial-A-LAN Modules	
2A/Plus Module w/2 v.34 28.8 Modems J2623A	2,132
2A/Plus Module and SNMP Bundle J2633A	2,241
4A Module w/4-async ports J2624A	1,706
4A Module and SNMP Bundle J2634A	1,777
SHIVA Net Modem/E 28.8	1,537
Lanrover/2E Plus	2,501
Lanrover/E 3.5 8prt	3,847
Lanrover/E Plus Async 8prt w/o modems	5,179
Lanrover/E Plus 8-port v.34	7,898
DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt	200/455/588
U.S. ROBOTICS 2-port Lan Modem Enet/TR	1,590/1,986
XIRCOM NetAccess 4-pt/8-pt	2,609/4,563

ISDN Connectivity

ASCEND Pipeline 25 BRI w/U Int.	720
Piperline 25 BRI w/Compression and Bridging	960
Pipeline 50 ISDN Single/ w/NT1	800/961
Pipeline 50 ISDN Multi/ w/NT1	1,219/1,342
Pipeline 400B/400T/400-4BRI	3,861/4,680/7,605
COMBINET ISDN PC card w/o NT1/w NT1	388/543
ISDN PC card w/Compression/w/ Comp. & NT1	466/621
ISDN SOHO 4 IP/unlimited	776/1,164
ISDN Remote Office 4 IP w/NT1	931
ISDN Remote Office Unlimited w/NT1	1,318
ISDN PRI Enterprise Access Server	3,539
CISCO Systems LAN2LAN Personal Office ISDN-BRI	506
LAN2LAN Remote Office ISDN-BRI	1,412
LAN2LAN Enterprise ISDN-BRI/4 BRI	1,925/3,995
DIGI Datafire 16 Bit ISDN (PPP)	409
PC-IMAC ISDN	533
PC-IMAC Multiport ISDN/4-1/4-2/4-4	672/1,064/2,092
GANDALF Lanline 5240I ISDN Bridge w/o NT-1	1,895
Lanline 5242I ISDN Bridge w/Analog	1,051
Lanline 5242I ISDN Bridge w/o Analog	830
ISDN*tek-Connect to Internet via ISDN	
CyberSpace Internet+ Card w/NT1	399
CyberSpace Commuter+ Card w/NT1	499
IBM WaveRunner ISDN ISA/MCA	562/562
7845 Extended NT1 for voice/data w/ battery	357
HAYES ISDN Adapter	733
MOTOROLA UTA220 ISDN w/NT1	616
HMTA200 ISDN/v.32/Fax w/NT1	711
BitSurfer TA210 ISDN Term Adapter w/NT1	409
NT1D Network Terminator	186

Network Printing Solutions

CASTELLE Jetpress XIO BNC/10Base-T	381
Jetpress MIO for HP4/MIO PLUS	349/451
LANPress 10BT (1 PAR)	313
LANPress THIN/10BT (1PAR/1SER)	362
LANPress THICK/10BT (2 PAR/2SER)	512
HEWLETT PACKARD JetDirect 10BT MIO	330
JetDirect Combo MIO BNC/10BT	400
JetDirect Token Ring	567
JetDirect EX 3 ports	487
INTEL Netport EL Ethernet/Token Ring	422/588
NetportExpress XL for Ethernet/Token Ring	463/618
MILAN Fastport 3000 1P/1S, BNC/10BT	459
Fastport 3100	710
Fastport 3500X TR Multi-Protocol	654

Network Fax Solutions

CASTELLE FaxPress 1000, 10BT/BNC	1,576
CHEYENNE FaxServe 3 NLM 5/10/25	393/717/1,177
FaxServe 3 NLM 50/100 (*New Version*)	1,816/2,533
FaxServe 3 NLM 250/500	3,801/4,982
FaxServe 3 NLM 1000	6,229
INTEL Net Satisfaxtion for 8 fax boards (25 users)	786
Net Satisfaxtion (1000 users)	1,040
DELRINA Winfax Pro for Networks (Server)	125
10/25/50/ Users	675/1,509/2,851
Starter Kit (1 Server, 2 nodes)	274
PURE DATA Satisfaxtion Modem 200/400	244/315
U.S. ROBOTICS Ethernet Fax Server	1,970
Token Ring Fax Server	2,227

Network CD-ROM

MERIDIAN CD-Net for DOS v4.31 (10 Users)	467
CD-Net for DOS v4.6 (10 Users/WAN)	648
CD-Net for NetWare (NLM-10 Users)	467
CD-Net for NetWare 100/250 Users	938/1,445
MICRO DESIGN SCSI Express for NetWare, MDI	599
SCSI Express CDROM, Non-MDI	808
CD-Rom LaserBank 600CD Ext. Single/Dual	599/1,117
MICROTEST Discport Ethernet/Token Ring	716/1,066
Discport w/NEC Ext. Quad Speed CD-Rom	1,282
Discport w/NEC 4-Unit/7-Unit Tower	2,906/4,249
Discport Pro	1,315
DiscServ NLM	558

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Smart-UPS 1000RM/1400/1400RM	646/675/805
Smart-UPS 2200/3000	1,183/1,901
Matrix 3000/5000/Smartcell	3,720/4,616/537
SNMP Agent for Novell/SNMP Mgr for Netware	125/145

Cable Testers & Supplies

RG58 & RG62 Rachet BNC Crimper/RJ45	45
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PLENUM RG58 or RG62 Cable (1000' min)	350
MICROTEST MT310 Kit	739
MT350 Value Kit/Fiber Solution Kit	1,837/1,482
Penta Scanner/Compas Kit	2,706/3,967

Novell Software

Lan WorkPlace for DOS Single/10 Users	309/1,508
Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/20 Users	1,125/1,866/2,613
NetWare for Mac v3.12 200 Users/4.01	685/851
Multiprotocol Router/MPR Router Plus	720/1,032
NetWare NFS Single/5-pk	3,215/10,537
NetWare NFS Starter Kit	1,095
NetWare NFS Gateway 5/10 User	1,040/2,156
Global MHS v2.0 20/50/100 Users	358/648/1,064
MHS v1.5 Network Edition 10/50/100 Users	140/504/733
MHS Multi-Network Edition 10 Users	140
Personal NetWare Single/5-Users	79/279

E-Mail

cc:MAIL Desktop-Any Platform	72
Lan Systems License 10 users/50 Users	632/2,883
Group Pack 10-pack DOS/WIN	638
Mobile for DOS or MAC	150
Router/Fax	95/1,459
Link to SMTP v2.0/Link to UUCP	2,473/370
MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3,173/3,194/1,419

Network Utilities

SYMANTEC Anti-Virus for NetWare 10/25	605/1,378
CHEYENNE InocuLAN 20/250 workstations	326/655
InocuLAN Option 25/100/250/1000	133/190/260/325
Utils for NetWare	257
COREL Network (RAID/CDROM/OPTICAL sw)	420
DIRECT ACCESS Network Menu	425
FUNK App Meter	464
FRYE Early Warning System or Lan Directory	339
INTEL LanDesk Virus Protect (Single)	696
LanDesk Virus Protect 4-pk/20-pk	2,070/6,757
MICROTEST Lan Assist or Map Assist	211
PALINDROME Prepare! Disaster Recovery SW	727
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

Peer-to-Peer Networking

ARTISOFT LANtastic 6.0 Network Starter Kit	244
LANtastic 6.0 Add-On Kit Coax/10BT	135
LANtastic 6.0 Software Single/5/10 User	99/354/637
LANtastic Management Serv./Advan	144/578
Central Station NetWare	447
Noderunner/SI Coax or TP/Combo	109/129
Lantastic for MAC	433
Lantastic for TCP/IP Single/5 Pk	220/883
CorStream 5/10/25/50 Users	699/1,362/2,209/2,754

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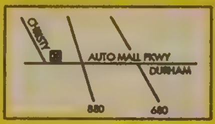

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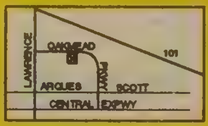

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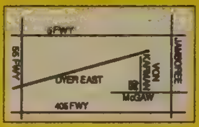

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Accounting *continued from page 90*

planning tasks for financial management." The study identifies four packages found not to provide aging by invoice, a feature that is important for monitoring delinquent accounts. Four packages fail to report gross profit by customer.

Wholesale and retail businesses may be particularly disappointed with certain of the packages. Fewer than half the packages report excess inventory, which accountants consider a significant management tool. The study identifies two packages that give no warning when inventory falls below critical levels.

> **The Courtney study** determined that the **quality of audit trails** and internal controls **varies widely, with several** packages clearly **inadequate for many uses.**

An implication of all this is that it is more important to ascertain if a particular package will suffice for your particular needs rather than assume that one package is "superior" to another based on the fact, for example, that a consumer magazine gave it a higher net score. When you select accounting software, understand what that particular package will and won't do before investing a great deal of time and money installing it.

On the other hand, the Courtney article helps elucidate the difficulty faced by accounting professionals asked to recommend accounting software to their clients. Indeed, the very problem in selecting "the best" accounting software is that there isn't one.

Audit Trails: Paved With Intention

A primary area of focus in the study is the degree to which each package provides a complete audit trail. An audit trail is the record of ledgers and journals permitting auditors to form supportable opinions about financial statements. An auditor needs to be able to trace a transaction through the accounting system from source documents (such as invoices) to the reports; or to start with the reported amounts and track back to the original documents from which they were generated. Audit trails are the essence of any accounting system.

Of course, it's not just auditors who need this information. Any time you want to find where a number or discrepancy comes from, you should be able to trace it through the accounting system.

All fifteen high-end accounting packages claim to provide complete audit trails. But according to the study, "the quality of the audit trails varies and several packages have clear deficiencies."

How Accounting Works

Transactions are entered into an accounting system with "journal entries"—a chronological listing of transactions. For instance, if invoices are processed daily, they should appear in a daily journal report showing, in sequence, all invoices processed that day. The computerized accounting system "posts" each item in the journal to the proper account. The report produced by the system detailing the activity of a particular account is called a ledger.

All the packages, of course, print journal reports and post the journal entries to the appropriate ledger. But in two of the packages, as the journal is posted, the laboriously entered detail is simultaneously wiped off the hard drive.

Lacking journals, you are left with a gap in the audit trail. Without adequate cross-references you would need to conduct a random search in order to trace an item through the system. Documentation for the two packages that wipe the journals off the hard drive tells you to pre-

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American Business Systems, Inc.
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AccPac Plus
Computer Associates International, Inc.
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SourceMate Information Systems, Inc.
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CYMA Professional Accounting Series Plus
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Great Plains Software
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Open Systems, Inc.
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Platinum Series Accounting
Platinum Software Corp.
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serve the audit trail by keeping printouts of the journal reports in a safe place.

Presumably, this would be outside of the State of California, where paper is subject to the trials of flood, fire, earthquake, drought, rodents, fruit fly, and spilled coffee.

Now, it may be technically correct that the software provides an audit trail, because it creates a hard copy before trashing your data. But if the printer jams, you might never see it. Or, if the journal report is placed where the sanitation crew confuses it with all your other accounting refuse, your audit trail winds up in the recycle bin.

Even if you never misplace a single printout, the information from these systems won't be available at remote terminals. Nowadays, most folks would prefer to view information on-screen than to have to dredge through boxes of archives, especially since you've already paid someone to enter all of this information into the computer.

The study reports a variety of other shortcomings in audit trails generated by all of the packages. The reports are difficult to produce: "They cannot be generated with just a few keystrokes." Four of the packages lack adequate indexing to let the user locate and view journal entries on-screen without resorting to paper output.

Many high-end accounting installations contain ten or more modules costing roughly **$400 to $1000 each.** Contrary to what one might expect from these price tags, the study **confirms widely held skepticism** that many vendor claims about their capabilities are **greatly exaggerated or** unfounded.

Protected By Hunt & Wesson

The study also points out considerable disparities in the effectiveness of system security. One particularly noteworthy weakness in two of the accounting programs is that they are not written in a compiled programming language, such as C. Thus, the accounting software itself could be modified by an embezzler or prankster with only rudimentary computer hacking skills. While this weakness might be compensated for by installing adequate system-wide security, many users are unaware that a problem exists and might presume that a high-end package would include this basic safeguard.

Similarly, the Texas study notes that none of the fifteen programs use data encryption, the most effective method for securing data. In fact, the report names two packages that store accounting data in standard ASCII format.

God Is In The Detail, If Any

Many problems are identified with subsidiary ledgers. Subsidiary ledgers are those providing a higher level of detail to transactions. For example, accounts receivable is supported by subsidiary ledgers for each individual customer or client. Or the inventory ledger might have a supporting ledger for individual parts.

The report finds, at best, difficulty in producing many of the subsidiary ledger reports that users should expect, and concludes, "We were distressed at the results." Four packages do not use subsidiary ledgers for receivables, payables, or inventory.

It should be noted that the Texas study began in 1993 and wasn't published until this year, so make allowances for the fact that all these packages are routinely updated.

Nevertheless, this is one of the few studies I've seen with the scope and caliber to take a CPA's perspective in pursuing a critical and independent evaluation of this scale. The study is methodological, scientific, and controlled to assure unbiased and independent results. In particular, it was carried out free of advertisers' influence. It is certainly on the recommended reading list for anyone responsible for selecting high-end microcomputer accounting software for a business of any size.

Of course, one feature of this class of accounting software that users find worth paying for is the ability to customize and tailor the system to their specific needs. The software is designed so a report or function can be added, albeit at some expense and inconvenience. The effect is that an already pricey package costs even more by the time it's ready to use, in order to achieve functionality that many people might assume should come out of the box.

Each of these packages requires a substantial investment in training, mastery, and perhaps customization. It's a whole other league from Intuit Quicken and Microsoft Word. Understandably, many accounting firms support only one or two systems as house specialties. Even firms with staff dedicated to microcomputer accounting systems may find it difficult to support as many as three because of the complexity and specialization of each package.

The fact that each product is fraught with its own quirks, flaws, and inadequacies further complicates the software selection process. The likelihood may be that your outside accountant does not support any package that you can live with happily ever after.

It hardly makes sense to shop for accountants based on the software they know. In the final analysis, the practical solution for now may be vigilance and good ol' fashion consumer pressure on the vendors. ■

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Complimentary reprints of the following are available from David Simon's office in Oakland at (510)893-5753.

A Shopper's Guide to Accounting Software: Fifteen Leading High-End Packages (Courtney and Flippen, *Journal of Accountancy*), reprinted with permission of the American Institute of Certified Public Accountants.

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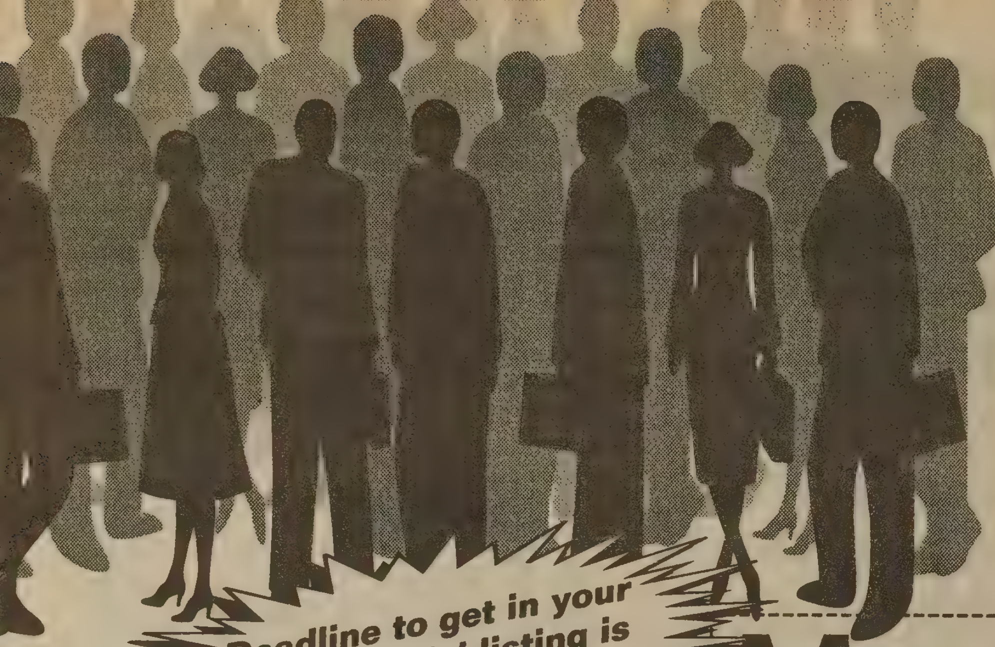

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** Figures based on data compiled through an independent reader survey, conducted by Research USA, Inc., May 1995.*

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☐ Training
☐ Web Page development
☐ Video
☐ Software
☐ Notebooks
☐ CD Titles
☐ Desktop Publishing
☐ Software development
☐ Networking
☐ Peripherals
☐ Multimedia
☐ Mobile Office
☐ Internet Provider

List your top 3 specialties and in-house expert for each:

Specialty	**Expert**
1. ____________	____________
2. ____________	____________
3. ____________	____________

What software platforms does your business support?

☐ Windows (specify) ____________
☐ MS-DOS
☐ UNIX
☐ OS/2
☐ Macintosh
☐ Novell
☐ Workgroup For Windows
☐ Other

What special value-added services (e.g., service, training, support, warranties, return policy, etc.) does your business offer? *(Please keep responses under 25 words or we will edit them to fit available space.)*

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Are you a vendor-authorized sales, service, training, and/or support source?
If so, please list up to five vendors (e.g., Apple, IBM, Novell, Hewlett-Packard, Compaq) who have authorized your business to provide these services, and check the areas for which you're authorized.

Vendor	**Sales**	**Service**	**Support**	**Training**
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2. ____________	☐	☐	☐	☐
3. ____________	☐	☐	☐	☐
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- 1.44MB Floppy Drive
- 540MB Quantum FireBall QM-30540FBA E-IDE Mode-4 HD
- Mitsumi FX-400 4X Spd ATAPI IDE CD-ROM w/Audio Cable on 2nd IDE Channel
- Creative Labs Sound Blaster Vibra 16 Stereo Sound Card
- Trident 9440 PCI 1MB Windows Accelerator
- 15" 1280x1024NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

** Call for EDO Memory Upgrade

75MHz	**$1497**
90MHz	**$1607**
100MHz	**$1717**

SPECIFICATIONS

CPU
- Intel 486DX2-50/66MHz (SL Enhanced)
- Intel 486DX4-75/100MHz

BIOS
- 1MB flash ROM
- Phoenix BIOS

Memory
- Memory Module (4MB and 16MB)
- 4MB RAM (expandable to 8MB/16MB/20MB/32MB)
- LIM EMS 4.0 supported

Disk Drives
- Built-in 2.5" 340MB harddisk up to 1.3GB
- Programmable power down feature
- Easy to remove/change
- Detachable 3.5" 1.44MB floppy disk drive

Display
- Western Digital video controller with 1MB RAM
- 9.5"/10.3" viewable screen size
- Active (TFT)/Dual scan (DSTN) color or superfwist monochrome (STN)
- 32bit VESA local bus VGA windows acceleration
- LCD resolution: 640x480x256 colors or 64 shades of gray
- CRT resolution: 1024x768x256 colors
- Programmable screen saver
- 1024x768 super VGA non-interlaced ouput to external monitor
- Support simultanous display for LCD & CRT
- Built-in 25mm ergonomically designed trackball
- One type III or two type II PCMCIA slots
- One serial port
- One bidirectional parallel port
- 15-pin external VGA video port
- One PS/2 port for external keyboard or mouse
- 160-pin connector for docking station
- One audio line-in jack
- One audio line-out jack
- One microphone jack

Keyboard
- Enhanced multifunctional keyboard
- 12 total function keys
- Integrated numeric keypad functions, keyboard mouse emulation
- Inverted "T" type curosr key arrangement

Weight (with single battery)
- 5.5lbs (monochrome)
- 5.9lbs (dual scan color)
- 6.1lbs (active color)

Power system
- Intelligent power management system
- Rechargeable Ni-Cad/NiMH battery pack
- Support two identical battery packs with warm swap function
- Universal auto-switching AC/DC adaptor
- Long operation time
- Single battery: 4 hours
- Dual battery: 8 hours

Audio Function
- Digital audio
- Record, compress, store and playback voice, sound and music to disk
- Microsoft sound system, sound blaster compatible
- Microsoft recorder and media player compatible
- Built-in microphone/speaker
- Audio software, Audio recorder, audio reminder, audio clip library, stop watch, talking calculator and chrime

Dimemsion
- 11.4x8.7x1.88" (dual scan color)
- 11.4x8.7x2.00" (active color)

Docking Station

Expansion Slots
- Three full-length 16 bit ISA slots
- One half-length 16 bit ISA slot

Bays
- Two 5.25" opened drive bays
- One 3.5" internal drive bay
- One battery charger or 3.5" floppy slot

Sub-systems Features
- Serial ports, Parallel port
- External leyboard port
- PS/2 mouse port
- 15-pin external video port

Power system
- 110/230V, 150W switchable power supply

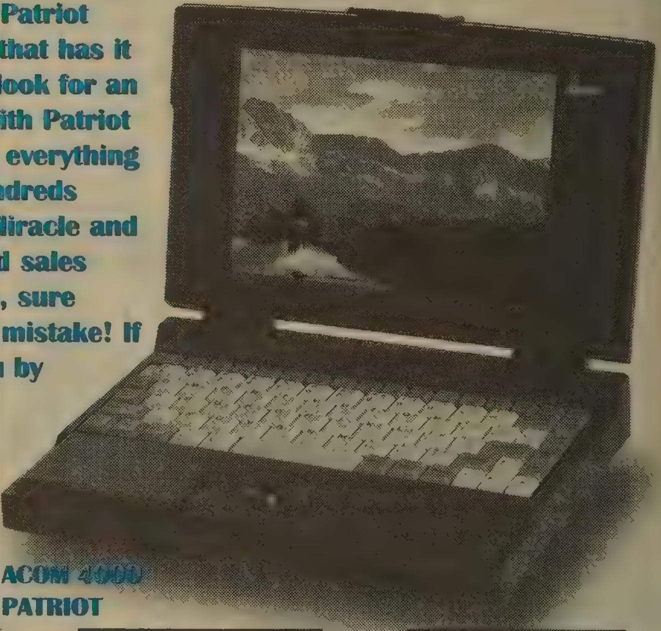
Physical
- 14.34"(w)x14.34"(d)x3.72(front)" and 6.35(rear)"(h)

Optional Devices
- One CD-ROM Drive & one 5.25" SCSI device
- One 3.5" full size hard disk (SCSI type)

Extra features for Model 4000F Dual Scan 10.3"

- High Speed 16550 UART serial ports
- Enhanced Parallel port
- 16Bit Sound card Built-in
- Built-in glide point touch pad pointing device
- Virtual Screen enabling 1024x768 Desktop
- Light Weight AC Power Transformer

Introducing ACOM Patriot 4000, a notebook that has it all. Why bother to look for an IBM or Toshiba? With Patriot 4000, you can get everything you desire, for hundreds less! Backed by UMiracle and ACOM sophisticated sales and support teams, sure there won't be any mistake! If it is brought to you by UMiracle, it is the best value because we have done the shopping so you don't have to!



ACOM 4000 PATRIOT

(540/810MB/1.3GBHD)	Mono VGA 9.5"	Dual Scan 10.3"(4000F Model)	Active Matrix 9.5"
486DX2-66	$1418/$1576/$1717	$1774/$1932/$2073(+$145)	$2311/$2469/$2610
486DX4-100	$1480/$1638/$1779	$1836/$1994/$2135(+$145)	$2373/$2531/$2672

4MB Memory Module.....	$190	PCMCIA 2X CD-ROM.........	$265	PCMCIA SCSI Interface.....	$165
16MB Memory Module...	$655	PCMCIA 14.4 Fax/Data......	$99	BackPack 2X CD-ROM......	$295
NiMH Battey Pack...........	$105	PCMCIA 28.8 Fax/Data......	$259	BackPack 4X CD-ROM......	$380
Car Adaptor 12V.............	$45	PCMCIA Ethernet Comb....	$105	ACOM Docking Station.....	$465

UMiracle

UMiracle Microsystems

44063 Fremont Blvd. Fremont CA 94538
Phone:510-226-6791 Fax:510-226-6758
1027 San Pablo Ave. Albany CA 94706
Phone:510-526-0271 Fax:510-526-0273
1501#E El Camino Rl. Belmont CA 94002
Phone:415-592-3333 Fax:415-592-2919

- **Free Local Area Delivery for System Purchase**
- **1 Year Parts and Life Time Labor Warranty**
- **Non-Hold Expertise LifeTime Tech Support**
- **While-You-Wait Immediate Replacement/Repair Service**
- **30 Day Money Back Compatibility Guarantee on Systems**

Prices, Availablity and Specification subject to change without notice. Not responsibile for typographical errors. All advertising prices reflect 2% check/money order/Cashier check payment discounts. 15% restocking charge applied on all parts returns after 7 days.

Pentium 200MHz PCI

Pentium Triton Chipset PCI 256K Cache Motherboard
supporting 75 to 200MHz CPU w/ Socket 7 & VRM, upto 512K SYNC Cache using CELP COAST
supporting FastPage/EDO upto 128MB, w/ 4 PCI Bus Master Enhanced IDE, 2x 16550 UARTS & ECP/EPP
8MB 70ns 72Pin FP SIMM RAM
1.44MB Floppy Drive
1.28GB Conner CFS1275A Fast IDE HD
Panasonic CD-574 4X Spd ATAPI IDE CD-ROM on 2nd IDE Channel
Creative Labs Sound Blaster Vibra 16 Stereo Sound w/ Audio Cable
Diamond Stealth 64 Video 2MB DRAM Windows Accelerator
15" Hitachi Superscan CM1587M 1280x1KNI Digital Green Monitor
Premium Digital Mini Tower 230W PS
KeyTronic 101 Protouch Enhanced Keyboard
MicroSoft Ergonomic Mouse w/ Pad

**Call for EDO memory, Pipelined Burst Sync Cache upgrades

75MHz	$1748
90MHz	$1848
100MHz	$1958
120MHz	$2148
133MHz	$2278

SURE RUN WINDOWS 95

Pentium Intel Endeavor

- Pentium Intel-Made Endeavor EV Triton Chipset PCI 256K Cache Motherboard
  supporting 75 to 133MHz CPU w/ VRM, upto 512K SYNC Cache using CELP COAST module
  supporting FastPage/EDO upto 128MB, w/ 4 PCI Bus Master Enhanced IDE, 2x 16550 UARTS & ECP/EPP
  built-in Creative Labs Sound Blaster Vibra 16 Stereo Sound w/Line-in/out,MIDI port, WaveTable Socket
- 16MB 70ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 1.28GB Conner CFS1275A Fast IDE HD
- PanansonicCD-574 4X Spd ATAPI IDE CD-ROM on 2nd IDE Channel
- Matrox MGA Millennium PCI 2MB Window RAM (WRAM)
- 15" Hitachi Superscan NS1587 1280x1KNI 0.28DP Green Monitor
- Premium Digital Medium Tower 230W PS
- KeyTronic 101 Protouch Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

**Call for Pipelined Burst Sync Cache upgrade

75MHz	$2358
90MHz	$2468
100MHz	$2568
120MHz	$2768
133MHz	$2888

YES, WE DO NETWORK! CALL NOW!

AIR Dual Pentium EISA PCI

- AIR Pentium 54CEP 512K Cache EISA PCI Motherboard
  w/ PCI Bus-Mastering Adaptec 2940W built-in on brd, 2x 16550 UARTS, & ECP/EPP
- 16MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- Fujitsu 2.1GB Fast Wide SCSI-2 68Pin 512K 10ms M2915QAW HD
- Panansonic CD-504B Quad-Spd SCSI-2 CD-ROM
- Creative Labs Sound Blaster Vibra 16 Stereo Sound w/ Audio Cable
- Matrox MGA Millennium PCI 2MB Window RAM (WRAM)
- 17" MAG DX-17F 1280x1KNI 0.28DP Digital Green Monitor
- Premium Digital Full Tower 250W PS
- KeyTronic 101 Protouch Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

** Dual CPU support requires
AIR 54CDP Dual P5 Motherboard
** Call for Dual 120 or 133MHz Configuration

90MHz	$4062
100MHz	$4182
Dual-90MHz	$4528
Dual-100MHz	$4768

UPTO 133 MHz

ULTIMATE WARRANTY
LIFE TIME LABOR
ONE YEAR PARTS

LOOKING FOR YOUR DREAM MACHINE AT THE CHEAPEST PRICE? SHOPPING FOR A PC IN THIS RAZAR-THIN-PROFIT INDUSTRY IS DANGEROUS BECAUSE 70% OF THE DEALERS WON'T LIVE TILL THE FORTH YEAR IN BUSINESS, MOST SELL 3 OR 4 MACHINES A WEEK WITHOUT KNOWING WHAT THEY ARE SELLING AND 99% DON'T WANT TO SEE ANY MACHINE COMING BACK AFTER YOU WALK OUT OF THE DOOR. AT UMIRACLE, WE BUILD HUNDREDS OF PC'S EVERY WEEK, WE TEST EVERY POSSIBLE COMBINATIONS OF SOFTWARE AND HARDWARE FOR COMPATILIBTY, AND WE STAND BEHIND YOUR PC'S LIFETIME LONG! WHY? BECAUSE WE LOVE YOUR PC AS MUCH AS YOU DO! COME BY AND VISIT ONE OF OUR STORES AND YOU WILL FIND OUT WHY YOU WILL BE THE WINNER!

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Albany Store

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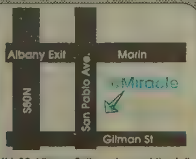
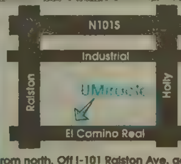
[illegible]



Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U.C. Village. Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Avenue.

Belmont Store

Ph 415-592-5330
[illegible] El Camino Real
Belmont CA [illegible]
[illegible]



From north, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make a U-turn. From south, exit Holly St, right on El Camino Real, 3 minutes down the block.

Fremont Store

Ph 510-226-7746
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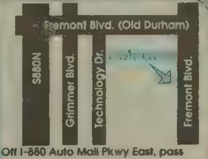
Fremont CA [illegible]
[illegible]
Fax 415-226-6768

Business Hour
Mon to Sat 9:00AM-7:00PM
Sunday 10:00AM-5:00PM



Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd, (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right.

OUR SERVICE, OUR COMMITMENT

- All complete systems are assembled, jumpers and switches setup/configured, DOS V6.22, Windows V3.11 and all included software installed for testing purpose, high resolution video monitor mode tested and continously burned in for 48 hours on all components and finally interactively inspected for trouble-free operation. All systems are to be visual inspected by customer at pick up time.
- Most advertised standard systems have been pre-built, burn-in tested and are ready to be picked up or delivered within 30 minutes IN FREMONT MAIN OFFICE - Please allow more time for minor configuration changes. Standard delivery time is 72 hours.
- Free delivery area includes local area within 30 minute driving distance. No delivery on weekends. Delivery out of local area will be charged up to $30 freight.
- Most components come with over 1 year manufacturer warranty - First year will be covered by UMiracle. Warranty after the first year will be covered by component manufacturers.
- While-you-wait immediate service should there be any neccessary warranty repair. If we couldn't solve the problem, another system will be built (at our discretion, if purchased within 30 days.)
- All pickups, repairs, exchanges, upgrades can be done in either Fremont, Belmont or Albany store. Original invoices & records required.

Hardware Components for your PC Upgrades

Motherboard without CPU: (Call for CPU Prices)

486 UMiracle Green ISA VLB 256K - 3 VLB, upto 128MB & 512KB Cache, Support 30 & 72Pin SIMM, P5 OD suppt, ZIP, Full Deep Green PC EPA compliance - shut off HD, Green Monitor, CPU Slow Down, etc, Award BIOS, PnP, Onbrd 3.3V CPU Suppt	$99
486 UMiracle Green ISA PCI 256K with Enhanced Mode 4 IDE, HiSpd I/O, upto 128MB & 1MB Cache, support 72Pin SIMM, P5 OD suppt, ZIP, Full Deep Green PC EPA compliance - shut off HD, Green Monitor, CPU Slow Down, Award BIOS, PnP, Onbrd 3.3V CPU Suppt	$150
Pentium Intel-Made Zappa PCI 256K Cache with Triton chipset 75/90/100MHz, 3 PCI + 4 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering PCI-IDE Interface, FD, 2 hi-spd Serials, enhanced Parallel, support 4 IDE HDs, PnP Ready, Flash AMI ROM, APM PowerSaving	$265
Pentium Intel-Made Endeaver PCI 256K Cache with Triton chipset, 75-133MHZ, upto 512K Async/Sync Cache, 4 PCI + 3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, Flash AMI ROM, APM PowerSaving, Built-in Sound Blaster Vibra 16S + Yamaha OPL3LS 16bit stereo sound with line-in/out, Joystick, WaveTable connector, CELP COAST (Cache On a STick) Pipelined Burst Sync Cache socket	$395
Pentium 200MHz PCI 256K Cache w/ Triton chipset, 75-200MHz with Socket 7 and VRM (Voltage Regulator Module) P6-Overdrive support, upto 512K Async/Sync Cache, 3 PCI + 4 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, CELP COAST (Cache On A STick) Pipelined Burst Sync Cache socket	$225
ASUS P/I-P55TP4XE Pentium PCI 256K Cache w/ Triton chipset, 75-150MHz with VRM (Voltage Regulator Module) P6-Overdrive support, upto 512K Async/Sync Cache, 3 PCI + 4 ISA + 1 ASUS MediaBus slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, CELP COAST (Cache On A STick) Pipelined Burst Sync Cache socket	$245
AIR Pentium 586 54CEP 512K - 90/100/120/133Mhz EISA/PCI - 2 PCI/5 EISA (ISA Compatible) slots, ZIF, Intel Neptune chipset, upto to 512MB by 72Pin SIMM, Bus-master, AMI BIOS, 32-bit PCI bus-mastering SCSI ports using Adaptec AIC 7870 controller (AHA-2940W equivalent) supporting 50Pin Fast SCSI-2 & 68Pin Fast WIDE SCSI-2 onbrd floppy ports supporting 2.88MB, 2-16550 UARTs, ECP/EPP Parallel port, 50pin SCSI cables and complete software driver included	$725
AIR Pentium 586 54CDP Dual 512K -90/100/120/133 Same as above except supporting 2 CPUs	$885

CPU & Memory: (Prices Subject to Change Daily)

Pentium P5-75/90/100/120/133/150MHz CPU	$Call
Intel 486-66DX2/100DX4	$Call
AMD 486-66DX2/80DX2/100DX4/120DX4 3.3V	$Call
8Kx8/32Kx8/64KX8/128Kx8 Cache SRAM	$3/$5/$14/$32
256K Async Cache COAST module	$85
256K Pipelined Burst Synchronous Cache COAST module	$165
512K Pipelined Burst Synchronous Cache COAST module	$Call
1MB DRAM for Video Card (256Kx16-70ns DRAMx2pcs)	$60
2MB VRAM for Video Card (256Kx8-70ns VRAMx8pcs)	$160
4MB RAM SIMMs (1M-70ns 30-Pin SIMMx4pcs)	$Call
16MB RAM SIMMs (4M-70ns 30-Pin SIMMx4pcs)	$Call
72Pin SIMM (4/8/16/32/64MB x32/x36 FastPage/EDO)	$Call

I/O Card/Controller Card/Network Card:

Single/Dual Parallel Printer Card	$8/$15
8 Bit AT I/O 2S/1P/1G	$10
8 Bit AT I/O 2S/1P/1G w/ 2 HiSpd UART 16550's	$35
16 Bit IDE/2FD with 2S/1P/1G	$15
16 Bit IDE/2FD with 2S/1P/1G 2.88MB support, HiSpd 16550 UART's on Serial ports	$40
VLB 32 Bit Enhanced 4-IDE/FD 2S/1P/1G Controller Supporting 4 Mode3 & 4 E-IDE devices	$18
VLB 32 Bit Enhanced 4-IDE/FD 2-16550 UARTs + EPP/ECP Controller Supporting 4 Mode3 & 4 E-IDE devices	$43
Adaptec 2940 PCI Fast PCI SCSI-2 Kit	$190
Adaptec 2940W PCI Fast WIDE SCSI-II, 20MB/s burst, 15 SCSI devices support w/ 50 & 68Pin ribbon cable Cmplete Kit & sftwre	$255
NCR SCSI-2 53C810 Bus-Mastering PCI Controller	$105
SideGold VLBus Fast SCSI-2, Enhanced-IDE w/ hi-speed I/O Controller - Implement with latest Adaptec SCSI 6360 chip supporting HD > 2GB, up to 10MB/Sec DTR, complete EZ-SCSI Software, support E-IDE HD > 528MB, Mode 3/4 protocol, compatible with ATAPI E-IDE devices. 2 hi-speed 16550 UART serial ports, programmable baud rate generator, bi-directional multi-mode parallel port with ECP/EPP, user friendly jumperless design	$135
Side Junior Pro VLBus Enhanced-IDE w/hi-speed I/O Controller with Built-in BIOS supporting 4 Enhanced IDE even if your old VLB motherboard does not support E-IDE, no software driver needed 2x16550UARTs, EPP, jumperless onboard	$55
External SCSI-2 50Pin Micro-D Adapter for any onboard internal 50pin ribbon cable SCSI interface	$25
FAST WIDE SCSI-2 internal Ribbon Cable, hi-density, 68Pin, 2 connectors / 3 connectors	$35/45
SCSI External Cable Centronic to Micro-D 50Pin 3"	$39
SCSI External Cable Centronic to Micro-D 68Pin 3"	$69
SCSI Cable Micro-D 68Pin to Micro-D 68Pin 6"	$99
SCSI-2 50pin / Micro-D 50Pin / Micro-D 68 Pin External Terminator	$12/25/50
Ethernet NE2000 ISA 16Bit Adapter Coaxial/10-Base T/Combo	$32/$32/$35
Ethernet NE2000 PCI Adapter Combo	$139
3COM Etherlink III 3C595-TX Fast Ethernet 10/100Base T PCI	$222
3COM Etherlink III 3C590-CB Bus-Mastering PCI Combo	$169
3COM Etherlink III 3C590-TPO Bus-Mastering PCI 10BT	$145
3COM Etherlink III 3C509 16bit Coax/10-baseT	$99/$99
3COM Etherlink III 3C509 16bit Combo	$105
3COM Etherlink III 3C579 EISA 32bit 10-baseT/Coaxial	$210

Video Card:

Trident 16Bit ISA 512K/1MB	$35/$55
Trident 9440 Windows Accelerator PCI/VLB 1280x1024, 16.7Million Color 1MB/2MB	$75/135
Diamond Stealth SE S3-732 Chipset 1MB/2MB PCI	$99/159
Diamond Stealth 64 Video DRAM PCI 64Bit Graphic Engine S3-868 2MB DRAM Version	$172
Diamond Stealth 64 Video VRAM PCI 64Bit Graphic Engine S3-968 2MB/4MB VRAM Version	$260/395
2MB VRAM upgrade board for Stealth 64 Video	$165
ATI Expression PCI 1MB/2MB DRAM	$155/195
ATI Graphic Turbo Pro PCI 2/4MB VRAM	$325/425
Matrox MGA Millennium 2MB/4MB WRAM PCI	$325/$Call
Matrox Impression Lite PCI 2MB VRAM	$283
Matrox Impression Plus PCI 2MB VRAM	$345
Matrox Impression Plus PCI 2MB VRAM 220Hz RAM DAC	$445
2MB VRAM upgrade board for Impression Plus	$225
Number 9 GXE 64 Pro PCI VRAM 2MB/4MB	$335/495
Number 9 GXE 64 Pro 1600 PCI VRAM 2MB/4MB	$525/675
Number 9 Imagine 128 4MB PCI	$795
Number 9 Imagine 128 1600 4MB PCI	$1015

Monitor:

14" 1Kx768NIx0.28DP Digital Control Green Monitor	$230
15" 1280x1KNIx0.28DP Digital Cointrol Green Monitor	$325
Hitachi NSA SuperScan CM1587M 15" NI, 1280x1024, 0.28DP, FlatScreen, EPA Green, Digital Controlled	$360
MAG DX17F 17" Digital Control 30-64KHz, .26DP, upto 76Hz, 1280x1024NI, Green, MPRII, VESA DPMS, 3yr Warranty	$635
Sony CPD-15SF 15" Trinitron 0.25DP 1280x1K, 3yr Warranty	$487
Sony CPD-17SF 17" Trinitron 0.25DP 1280x1024, 3yr Warranty	$829
IIYAMA VisionMaster MF-8617A 17" .26DP, Microprocessor Contrl, Low Radiatn, VESA DPMS, Auto Size	$740
IIYAMA VisionMaster MF-8221 21" .28DP, Microprocessor Contrl, 1600x1200, 25-85KHz	$1755
IIYAMA VisionMaster MF-8621 21" .26DP, Microprocessor Contrl, 1600x1200, 25-85KHz	$2145
IIYAMA VisionMaster MF-9121 21" .30DP, Microprocessor REMOTE Contrl, 1600x1200, 72Hz, Trinitron	$1725
Viewsonic 15ES .28DP 1024x768NI 76Hz	$369
Viewsonic 15GS .27DP 1280x1024NI 86Hz TCO'92	$438
Viewsonic 17 .27DP 1600x1280NI 76Hz Flat	$793
Viewsonic 17GS .27DP 1600x1280NI 86Hz Flat	$755
Viewsonic 20G .28DP 1600x1200NI, Digital Control	$1295
Viewsonic 20PS .28DP 1600x1200NI Digital Control	$1390
Viewsonic 21PS .25DP 1600x1200NI Digtal Control	$1699
NEC, ADI, Nanao, Nokia Monitor, etc	$Call

Modem:

Digicom 14.4K Fax/Data Internal 16550 UART	$55
Digicom 28.8K V.34 Fax/Data Internal 16550 UART	$165
USR Sportster 14.4K Data/Fax Internal/External	$95/115
USR Sportster VI 14.4K Fax Int. w/ Personal Voice Mail	$125
USR Sportster VI 28.8K V.34 Fax, Int. w/ Personal Voice Mail	$225
BOCA Sound Expression 14.4Vsp Sound card + 14.4 Voice/Fax/Modem - all in one	$155

Floppy Drive/Tape Backup:

Mitsumi 1.44M 3.5"	$31
Teac 1.2M 5.25"/1.44M 3.5"	$41/31
Teac Dual 1.44M & 1.2M Combo	$86
Colorado 350MB DJ35C Backup off floppy QIC-80	$143
Colorado 700MB DJ25 Backup off floppy QIC-30/10W	$238
Colorado 1.3GB DJ50 Backup off floppy QIC30/20	$340
Colorado 800MB T-1000 off floppy Travan QIC-80	$215
Colorado PowerTape PT25 2.0GB SCSI 1/4"	$889
Colorado PowerTape PT50 4.0GB SCSI 1/4"	$995
Tape Cartridges for Colorado Backup	$Call

KeyBoard/Mice/Software/Chassis/PS/Misc:

MicroSoft Natural Keyboard	$90
Mitsumi 101 Enhanced Keyboard	$15
KeyTronic 101 Enhanced U.S. Made	$22
Keytronic 101 ProTouch E05105 U.S.Made	$22
Focus 2001 101 Enhanced Click w/Cover	$32
Focus 8000 111 with Calculator	$40
Focus 9000 129 Programmable w/Calculator	$55
NorthGate OmniKey 101NI/102	$74
MS Compatible 3-Button Mouse	$7
MicroSoft Ergonomic Serial Mouse	$35
Logitech Mouseman Serial	$45
MS DOS 6.22/Windows V3.11/WFWG V3.11	$45/45/6
MS Windows 95 CDROM version	$99
Premium Case w/230W Mini/Desktop/Med	$55/65/8
Premium Case w/250W Full Size Tower	$100
Server Class Super Case w/230W PS w/ detachable front panel, dual side door open, solid construction, slide-in Drive Bay, dual Pull Fans, lots of bays, Full/Medium Tower	$125/$16
Deluxe External SCSI Case w/Terminator+SCSI Cable+P/S+Fan 3.5" Half Height/5.25" Half Height	$80/$115
Power Supply PS-II Type 230W/250W/300W	$28/$35/$8
486 CPU Cooling Fan with heat sink	$8
Pentium CPU Cooling Fan w/heat sink	$12
Chassis Second Cooling Fan 3" or 3.5"	$15
Motherboard Crystal for 25/33/40/50/66/80MHz	$5
Printer Cable 10"/15"/25"	$7/9/16

CD-ROM Drive:

Sony CDU-55E Double Speed ATAPI IDE 250ms caddyless software driver included	$110
Sony CDU-76E Quad Speed ATAPI IDE	$159
Mitsumi FX-400 Quad Speed ATAPI IDE	$155
Panasonic CR-574B Quad Speed ATAPI IDE 600kb/s	$165
Panasonic CR-504B Quad Speed ATAPI SCSI 600kb/s	$225
Toshiba FM-5302B QuadSpd IDE 256K Cache 150ms, 600KB/Sec Sustained, MultiSpin/Spd Internal	$188
Toshiba XM-3601B QuadSpd SCSI-2 256K Cache 120ms, 600KB/Sec Sustained, MutlSpin/Spd Internal	$290
Plextor 4-Plex QuadSpeed PX-43CH 600Kb/sec, 220ms, 1MB Buffer, 2-yr warranty	$365
Plextor 6-Plex 6Xpeed PX-63CH 900Kb/sec, 145ms, 1MB Buffer, 2-yr warranty	$495
NEC 6XI Six Speed 900Kb/S, 256K Cache, 145ms	$475
CD-ROM Caddy	$5

Sound Card/Speaker/MultiMedia Package:

Media 690 Hi-Fi Amplified Stereo Speakers	$39
80W TopTek Amplified Stereo Speakers	$49
120W MultiMedia Amplified Speakers	$59
Sound Blaster 16 Value Edition (Retail)	$89
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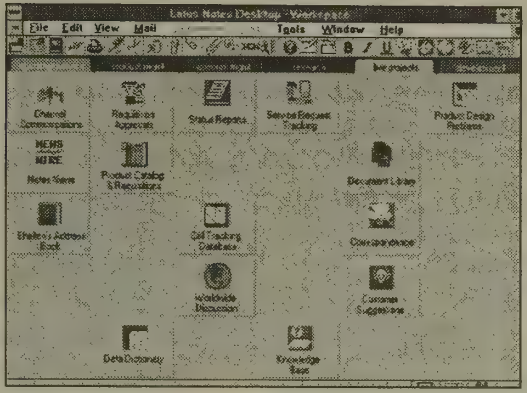
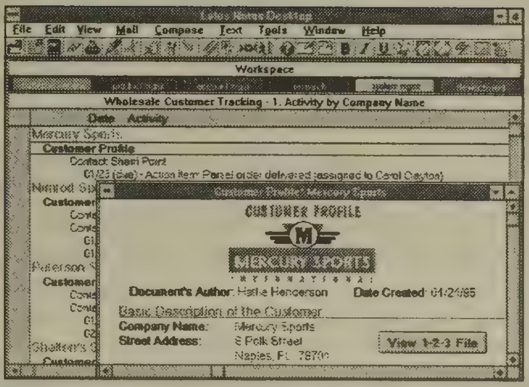
Security In Groupware Systems *continued from page 176...*





Wholesale Customer Tracking - 1. Activity by Company Name

Customer Profile

Contact: Sheri Point

Document's Author: Hattie Henderson

Date Created: 01/24/95

Basic Description of the Customer

Company Name: Mercury Sports

Street Address: 8 Polk Street

site, but it does allows for the secure transfer of protected messages across the Internet

To sum up, then: A Notes document could be kept private from anyone without the proper access to that file. The document can also be set up to encrypt specific portions of its contents and make them available only to a sub-group of Notes users with the authorization to read the file. And the entire document can be encrypted again using the "Secure Channel" feature for transmission across the Internet to another Notes system.

If you create a document with the encryption flags set, the decryption process will be automatic for all authorized users. Unauthorized users who try to view that document will instead see a message that the document is encrypted and they don't have the key required to see it.

If you want to further encrypt the document for a narrower group of Notes users, you must create an encryption key and give it only to the recipients you want to be able to read the file. In an email environment, of course, you can simply use the recipient's public key to do the encryption.

Notes creates the public and private keys automatically, whenever a new user is introduced to the system. The public key is automatically placed into the Notes public-key file, and the private key goes into the new user's own Notes "ID" file.

After a Notes user creates a new single key for document encryption, it's easy to send it to other users. They place it into their ID files so Notes automatically decrypts files encrypted with that key whenever that user tries to view them.

As with most key-based encryption systems, when a key is compromised, the user simply creates and distributes new keys. But it's necessary to write what Notes calls an "Agent Script" (but the rest of us call a macro) to decrypt all the documents that used the old key and to reencrypt them using the new key that replaces it.

Lotus representatives are cagey about the bit-length of the keys that Notes uses, but they did acknowledge that the overseas version of Notes uses 40-bit keys on single-key encryption (the length of its public keys is not for release). Domestic versions of Notes use a DES-like single-key system for document encryption, and a 512-

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Security In Novell's GroupWise

GroupWise is an enterprise-wide electronic messaging system with built-in calendaring, task management, and other advanced features that greatly facilitate working in groups.

The most notable feature of GroupWise's privacy and security is that the software fully encrypts all messages, whether stored locally or transported through the system. The user need do nothing to encrypt or decrypt any information in this fully automatic system.

Once you are authenticated by the system, you can scan all the messages to which you have access.

Users are authenticated whenever they log onto the network. For situations where this level of security is not sufficient, GroupWise can also insist on a second level of authentication. Since the system already knows who you are—you logged onto the network, didn't you—it asks only for a second password this time around.

Most of this authorization is automatic and transparent, but GroupWise offers a "proxy" function that lets someone else, such as your administrative assistant or coworker, access one, two, three, or all four of the message types you receive. This enables you to delegate certain tasks or responsibilities to others, or keep work flowing even when you're not on the system.

GroupWise message types include:

1) email messages

2) appointment messages, which are like email, but have attributes that include a date, a time, and a location, and which automatically post themselves into the GroupWise calendar

3) task messages, which are much like a "to do" item on a calendar, automatically showing up in your task list, with priorities set by yourself or whoever sent them to you and

4) note messages, which are very much like email but are attached to a certain date on the calendar.

It is also possible for a user to give or deny access to messages marked as "private" by either the sender or the recipient.

One interesting facet of this "privacy" setting is that GroupWise can mark as private some or all of the messages you receive. It does this by referring to privacy rules you establish. For example, you can have all messages from your boss automatically marked "private." This would exclude them from access by anyone to whom you didn't give specific access privileges.

Because these privacy rules are executed by GroupWise's remote server, messages that conform to your rules are delivered to you already marked "private."

GroupWise also offers two security capabilities above and beyond those of its email system:

1) Public/private-key encryption for electronic forms. With this capability, a form you fill in electronically can be signed and tamper-sealed against modification. This allows users to submit such critical information as payroll change notices or accounts payable authorizations over the network, and be sure no one else can change it.

2) Access restriction for documents. GroupWise

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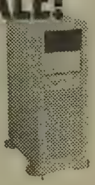

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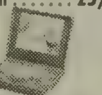

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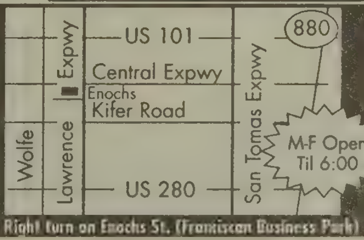

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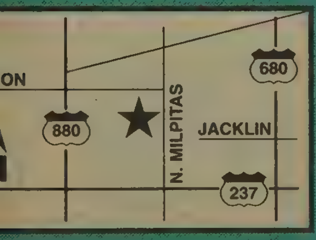

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Security In Groupware Systems

continued...

allows for a public setting (anyone can read and change it), a semi-private setting (anyone can read it but only the originator can change it), and a private setting (only the originator can even set the document, let alone read or change it).

(An extended security feature precludes any "back door" access outside of GroupWise by handling the access granting and revoking process within the entire NetWare environment. Unauthorized users can't even see that a private file exists in a normal file list.)

There are two email message modes within GroupWise: a "pass through" mode can be set up when GroupWise software is used on both ends of the connection. In this mode, the system maintains full security throughout the entire email transfer process. When GroupWise exists on only one end of the connection, the software automatically removes its proprietary encryption before it sends an email message off the system.

Of course, if you're not satisfied with the built-in security capabilities of Notes, GroupWise, or any other software within your computer system, it's nearly always possible to rely on a good encryption program, like PGP. To do this, you would simply create a message, exit your email system to encode it, then reenter the system to send it across the network. You'd go through the same procedure in reverse for messages you receive.

But it's a darn sight more convenient when your email system has privacy and authentication built right in. ■

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RESOURCES:

Notes
Lotus Development Corp.
55 Cambridge Pkwy.
Cambridge, MA. 02142
(617)577-8500

GroupWise
Novell, Inc.
122 E. 1700 S.
Provo, UT 84601
(801)429-5900

MULTIMEDIA 101

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resources and precise artistic desires, how to achieve the effects you want across a range of machines is something to think about.

In the case of *Smut Picture Racket*, it also leads to thinking that perhaps Jaffe should have spent more time on fine tuning. Other rough spots include typos in the novel, some further clunky design, especially in the Peep Show video section, general slowness, and at least one sound file that cuts out in the middle.

None of these are major problems, annoying as some may be; while Jaffe makes that claim of not wanting things to be easy, I feel that it's a bit of a cop-out and that a little more polishing of the product would have been beneficial. Attention to detail is, as ever, the sign of the committed artist and, while *Smut Picture Racket* has its impressive aspects, it ultimately falls short in this area.

A REAL DUNGEON

I'm sure Deborah Jaffe isn't going to let that opinion stop her. She's already at work on :cybertzara's next project, a historical CD-ROM about Alcatraz. I laughed when she told me that—but I was surprised when she told me she hadn't made the dungeon connection between Alcatraz and S&M. However, it's a good move—over a million people a year from all over the world visit Alcatraz and the CD-ROM will be carried in the bookstore there. ■

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RESOURCES:

Smut Picture Racket
available for Mac and Windows
(hybrid disc)
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GULCH GOSSIP

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ducer for Digital Pictures) afterhours and in their spare time. This year we decided to throw a dedicated film fest—we are looking at using a SOMA theater. We are seeking films and videos by people who work in multimedia and film (from around the world). Basically to showcase what, for example, the Colossal director—who during the days makes Honda commercials—makes in his free time, or what a multimedia employee (us for example) throws together with a Hi-8 camera and the incredible array of Macintosh-based video editing and effects software." How about an URL? It's *www.lowres.com/lowres/* . Jonathan can be emailed at *flux@netcom.com* .

Do you get the feeling these guys should be talking to each other? Bet they will have by the time you read this.

Center For The Arts

Center for the Arts at Yerba Buena Gardens, 701 Mission Street, SF, has a couple of seemingly interesting computer-art shows coming up. Through October 1, **Paul DeMarinis** has "a computer-generated installation in the high-tech gallery." No, I don't know what that means either—but apparently DeMarinis "has worked with computers since the 1970s as a composer and sculptor." **Michael Naimark**, the first artist-in-residence at Interval Research, a pioneer of interactive computer art, and a very occasional and reluctant source for this very column, has a show there from December 21 through March 3 of next year. I'll try and get Michael to say something provocative about what he's doing closer to the event.

Wireless, or This Month's Wired Item

David Dix has moved on from *Wired* to join C/NET, while **Will Kreth**, *Wired's* first employee, extremely instrumental in launching HotWired, and one of my favorite people to run into around town, has made the giant leap to New York for a job with the Prodigy Services Corporation. I'll miss him both personally and professionally. Good luck, Will. ■

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MultiMedia & BEYOND

AMIGA

continued from page 277

channel images. These can be used with the Switcher to key ToasterPaint graphics over live video. You can also use them in LightWave. Unfortunately, this feature was not fully implemented in my version.

There appear to be some tools to batch-process Flyer clips for operations like tinting. However, without a Flyer board I was unable to determine what the tools did.

NewTek has addressed many complaints on ToasterPaint and done a better job of integrating it into the Toaster's suite of tools. However, it is still a very basic (though solid) paint package. If you need more advanced features, Innovision's AlphaPaint (reviewed two months ago) is still the way to go, and appears to be compatible with the Toaster 4.0 software. Thank Goodness!

TOASTERCG

The Toaster's Character Generator has gone through some significant changes too. Previously you had a choice of whether CG Pages were rendered on the fly or loaded from prerendered buffer Pages—the latter providing much quicker access. However, you had to go through the often painstakingly slow process of loading all of the Pages in a project's Book, even if you only needed one Page. The new Switcher requires all CG Pages to be prerendered.

The concept of Books still exists, but now acts more as a way to archive sets of Pages. ToasterCG now supports ARexx, and the nice folks at NewTek have provided a macro that individually renders and saves each Page in a Book. This could save you a lot of time if you have a "stack" of existing books that you need to use with the 4.0 ToasterCG.

In fact, there are a bunch of helpful ARexx scripts included with the package. There is even a spell-check macro, but it is slow as molasses.

As with ToasterPaint, ToasterCG now gives you control over height, width, shear (slant), and rotation of PostScript fonts. Sizing is accomplished by dragging a sizing gadget, but rotation and slant must be typed in. It is not as interactive as I'd like it to be, but the results are stunning. A nice new feature involves the display of brushes—the basic shape of the brush is now displayed in gray within the outline box. This should help a great deal when you are trying to align things on a Page.

RESOURCES:

Toaster 4.0:
CD-ROM, $549
floppy disks, $595
NewTek
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1-800-847-6111

CHROMAFX

The only real change to the ChromaFX screen appears to be the addition of load and save effect buttons. Similar to the new ToasterCG, to use

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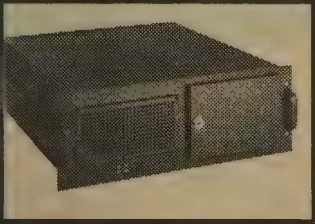

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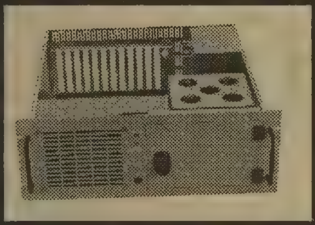

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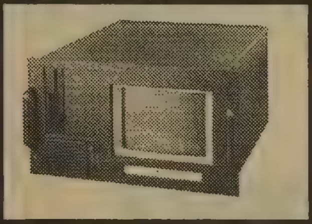

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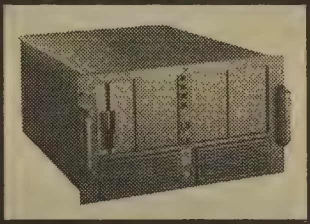

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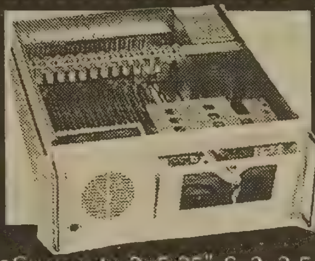

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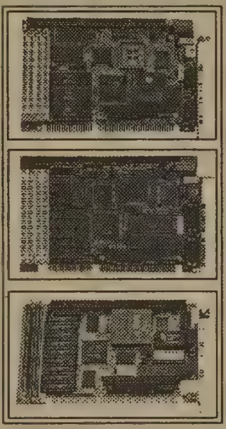

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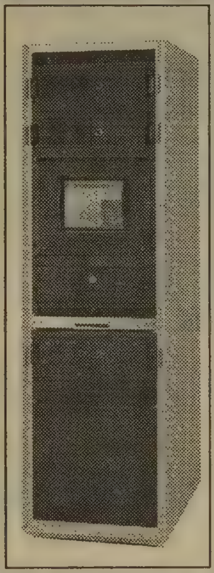

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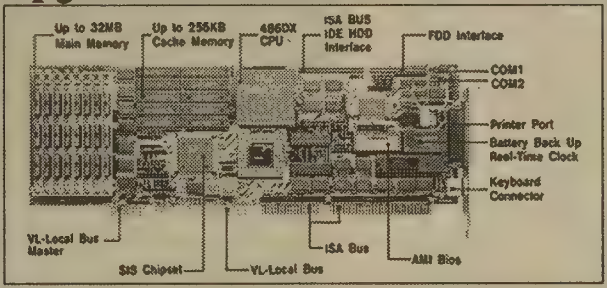

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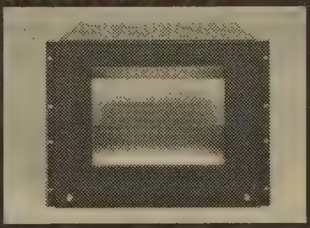

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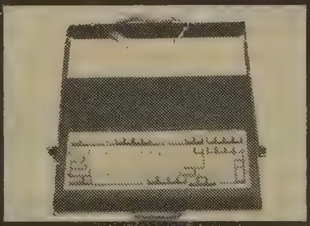

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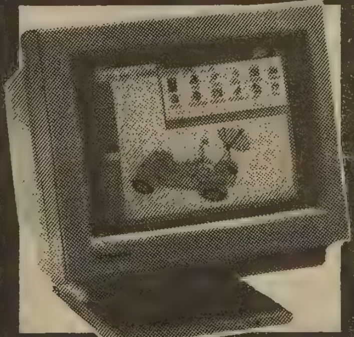

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AMIGA *continued...*

ChromaFXs with the new Switcher, you have to save the rendered effect to file first.

HIIP

Toaster applications will be supporting a variety of image formats using something NewTek calls "Hiip" (Host Independent Imaging Protocol). In reality, these are most of the Art Department Professional (Elastic Reality) loaders and savers, including Alias, BMP, Framestore, IFF, JPEG, PCX, PICT, SGI, SoftImage, TARGA, TIFF, Wavefront, YUV, and many more. This will be implemented in the final 4.0 release.

FUNKY NAMES

Gone is the funky naming convention for Framestores, CG Pages, Projects, etc. used in prior Toaster versions. You can basically name things anything you want, but you'll want to make sure you use logically named subdirectories to make them easier to find later.

INSTALLATION

Toaster 4.0 is available on a CD-ROM or sixty floppy disks. (That's right. 60!) You have your choice, but note that the CD-ROM will contain more effects and other supplemental files.

The objective of the floppy-disk version was to give users without CD-ROM drives the new Interface, ToasterPaint, ToasterCG, etc. but content only up to the level of v3.1. If there was ever a good reason to get a CD-ROM you've got it now. Even if you are on a tight budget, you should be able to pick up a used drive for near the upgrade price differential.

The installation script indicates a full installation takes up a whopping 446,168,473 bytes of disk space! However, on my A4000 only about 300MB were actually used. (Still, it's a sizable chunk of hard drive space.) Fortunately, you can pick and choose what you want installed.

The Toaster software directory structure has been changed; everything is now set up under a directory called "NewTek." There are about 150MB of effects included if you install them all, not to mention a ton of Preview Anims, Framestores, and images. Over 9MB of LightWave objects are provided. If you have the disk space, I'd recommend you install everything and later delete what you don't think you'll need.

You may just want to increase your storage capacity anyway, however. The new Toaster has an appetite for space. CG Pages, Framestores, Previews, ChromaFX filters, etc. all need room, now more than ever! If you ever needed a good reason to get that 1GB drive, here it is.

If you are upgrading, note that none of the FontBank PostScript fonts are included, but there are 34MB of color fonts. So be sure to hang on to your old fonts.

MISSING IN ACTION

One feature I really miss is the Control-Control-Alt-Alt keystroke sequence that got you out of the Switcher and back to the Workbench. There is probably another way out, but I have yet to discover it. If you use an A4000, you might even miss the colorful "Please Stand By" logo, which has been replaced by a simplified grayscale logo.

Since I was kind of flying blind without a manual and using prerelease software, I've probably missed some new features. However, make no mistake, this is a major upgrade and well worth the upgrade cost, even if you don't have or plan to get a Flyer. Next month I hope to finally take a close look at the Flyer, which is supposed to be winging its way to my home at this very second! ■

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Amiga Update

While ESCOM originally indicated that Amigas would be built in China, plans have changed and (at least initially) they will be built in the US. (It seems it would have taken a year or so to get production going following the original plan.)

Creative Equipment International has already announced that it will distribute the new Amiga line in the US, beginning with the Amiga 4000T (Tower) due out around September. This machine uses a 25MHz 68040 CPU (still) with 6MB of RAM and a 540MB hard disk. The prototype 4000T that Commodore showed in late 1993 had two video slots, three Zorro III slots, and a built-in SCSI II controller. No word on the exact configuration of the ESCOM version. The tower case has a lot more room for hard drives, so this should be the perfect home for a Flyer. The street price is expected to be around $3499.

The price seems a bit high, but results from a perceived pent-up demand for tower A4000s, which Commodore announced but never brought to market, as well as a small initial production run. Although some speculate that prices will quickly drop, I think it's more likely that newer models will soon follow with features like an '060, CD-ROM, larger drive, etc. ESCOM is just trying to keep its promise and get something out of the door. Note that these computers are not from old inventory; they will be newly manufactured machines. ■

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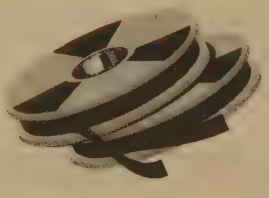

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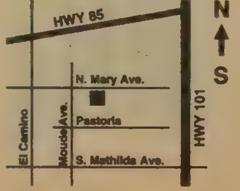

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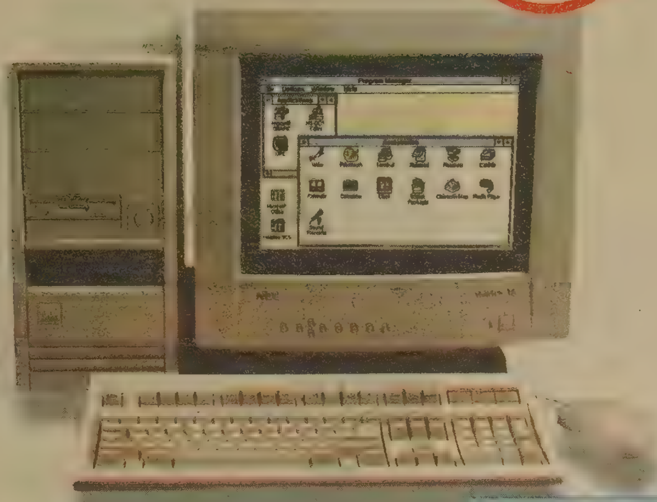

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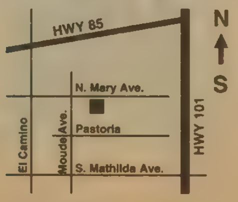

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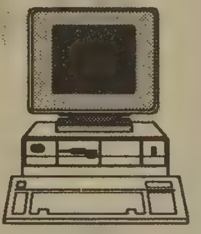

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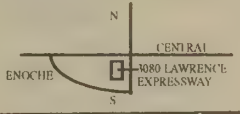

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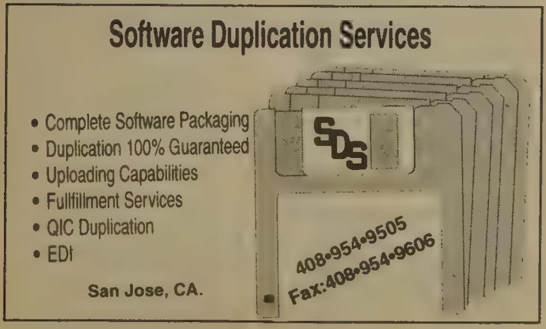

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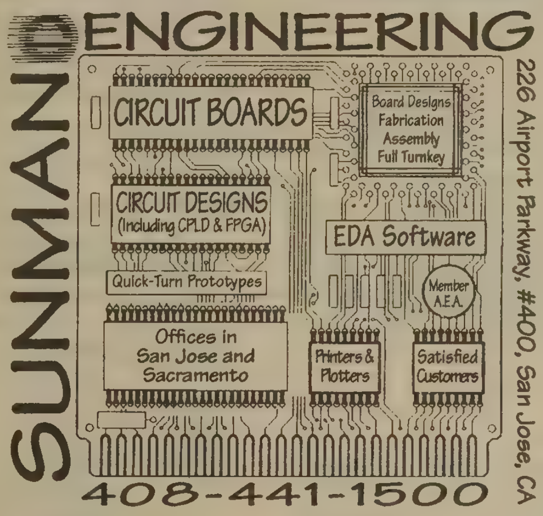

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Online Guide

Web Page Listings *continued from page 118*

TELOS, The Electronic Library Of Science *http://www.telospub.com/* TELOS publishes scientific titles with electronic components: CD-ROMs, diskettes, or files via Internet. It's cool. [Exp. #140.]

Topanga Canyon Rotisserie League *http://bcf.usc.edu/~kbrennan/index.html* Follow the fantasy baseball league here, complete stats, transactions, plus hotlinks to numerous baseball sites. [Exp. #145.]

UNCAT: The Catalog Of UNCATaloged Titles *http://www.sapphire.com/UNCAT/* Brochures, books, catalogs, newsletters, videocassettes, and audio cassettes not generally available in a bookstore or library. [Exp. #143.]

USAMALL *http://www.usamall.com* Fun page with hot and hip info, adventure sports, and entertainment schedule for concerts in the Bay Area. [Exp. #140.]

Venice Beach, California *http://www.mediaonline.com/bizads/venicebeach.html* Celebrate Venice's 90th anniversary in this art community including fitness events in world-famous Muscle Beach. [Exp. #144.]

Videomaker's Camcorder & Desktop Video *http://www.videomaker.com* High-quality, up-to-date information on video production and distribution; working to democratize and enrich television. [Exp. #141.]

Virtual Vegas *http://www.virtualvegas.com* Virtual Vegas brings fun, entertainment, contests, prizes, and more. You can virtually gamble here—stay tuned! [Exp. #141.]

Virtual Vineyards *http://www.virtualvin.com* Learn about the delights of great wine, discover your wine tastes, buy carefully selected wines. [Exp. #141.]

Voyager Company *http://www.voyagerco.com* Laurie Anderson, the *Paris Review*, the Guerrilla Girls, monthly opinion feature; demos, simulations from Voyager products. [Exp. #142.]

Wave Action Surf Magazine *http://www.waveaction.com/mag* Surfing from around the globe featuring photos of some of the world's best new school surfers captured by industry photographers. [Exp. #144.]

Weddings Online *http://www.sensemedia.net/sprawl/weddings* A one-stop information resource making it possible to plan your wedding right from home. [Exp. #140.]

Welcome To WOL On The Web *http://www.cris.com/WOL* The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #140.]

WH Networks *http://www.whnet.com/wolfgang* Connecting Minds, data communications archive. [Exp. #140.]

World Conquest *http://dnai.com/~conquest* Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #140.]

World Square *http://www.w2.com* "Virtual mall" with companies doing business in music, art, publishing, food, finance, automobiles, heath, and medicine. [Exp. #142.]

Writer's Showcase *http://community.net/~necknox* Tells about the author and book on disk called *Fatal Image*. [Exp. #140.]

XROADS *http://xroads.wr.usgs.gov/Welcome.html* Links to US Geological Survey Web sites. A way to learn about earth science and the USGS. [Exp. #143.]

Z Times *http://www.lh.com/z* National Association of Broadcasters 95 show report, St. Stupid Day Parade in San Francisco, links to unusual sites. [Exp. #142.]

ZIPZAP Universe *http://zipzap.com* Home to the ZIPZAP Gallery, *Deep Style* Magazine, *ZIPZAP* e-zine, and the ZIPZAP Universe BBS. [Exp. #140.]

ORGANIZATIONS

American Bar Association *http://www.abanet.org* General facts and resources on the law, continuing legal education courses and requirements, ABA info. [Exp. #141.]

American Communications Association. *http://www.uark.edu/depts/comminfo/www/ACA.html* For those interested in communication research, communication law, freedom of information, free speech, First Amendment. [Exp. #141.]

American Sightseeing International *http://www.sightseeing.com/* ASI, a global association of tour companies, offers worldwide tourism information. Email: *info@sightseeing.com*. [Exp. #145.]

Art & Artist Network *http://voyager.via.net/netbiz/artist.html* International directory of artists, art galleries, and art-related services. [Exp. #141.]

Web Page Listings *continued...*

ASSE—Greater San Jose Chapter *http://www.best.com/~assegsjc* Information, links on environmental, safety, and health issues, and the American Society of Safety Engineers. [Exp. #145.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor* Lists hundreds of volunteer opportunities with San Francisco Bay Area nonprofit organizations. [Exp. #145.]

Black Data Processing Associates *http://www-leland.stanford.edu/group/bgsa/bdpa/bdpa.html* National network of DP professionals, educators, students, and vendor reps. [Exp. #140.]

California Association Of Residential Care Homes *http://www.hooked.net/users/rallap/index.html* Nonprofit association of care providers, current list of vacancies in Santa Clara County, referrals. [Exp. #143.]

CERA Research *http://www.cera.com* Web site for embedded systems engineers and programmers, includes Electronic Engineer's Internet, 1995 report on engineers and programmers on the Net. [Exp. #145.]

Creative Learning Stroke Support Site On The Web *http://www.tpoint.net/creative/* Creative Learning publishes multimedia software to help rehabilitate language after a stroke or other neurological impairment. [Exp. #145.]

Cupid's Network, Inc. *http://www.cupidnet.com/cupid* Network of singles organizations, dating services, matchmakers, and personal ads. Many ads from women. [Exp. #145.]

De Anza College *http://www.deanza.fhda.edu/* De Anza College programs, services, community events, class schedules, and much more to explore! [Exp. #145.]

Greenbelt Alliance *http://www.greenbelt.org/gba* Everything about the Bay Area's greenbelt of open space: maps, outings, issues, factsheets. Fight urban sprawl! [Exp. #143.]

Greenpeace Climate Homepage *http://www.greenpeace.org/* Berlin Climate Summit info, FAQ on climate change, links to other climate info on the Net, more. [Exp. #141.]

History Computerization Project *http://www. history.la.ca.us/history* This project includes: request forms for a free history database tutorial, photos on display, and directories of historical resources. [Exp. #144.]

Impact Online *http://www.internex.net/impact* Interactive access to nonprofit organizations, topical issues, and information on a range of social issues. [Exp. #142.]

International Netsuke Kenkyukai Society *http://www.hooked.net:80/users/yukiyama/* Information on Netsuke Kenkyukai Society and collecting netsuke (Japanese antique toggles). [Exp. #141.]

International Paperweight Society *http://www.armory.com/~larry/ips.html* A nonprofit organization dedicated to furthering the awareness of fine glass paperweights. A mecca of information. [Exp. #142.]

Japan Summer Program *http://www.kaiwan.com/~stussy/japan95/japan11.html* Information about studying photography or the Japanese language in Japan during the summer of 1995. [Exp. #142.]

Karma Kagyu Buddhist Cyber Center *http://144.92.74.130* Introducing Karma Kagyu lineage of Tibetan Buddhism, main teachers, teaching and meditation schedules, presenting quarterly magazine. [Exp. #142.]

LatinoWeb *http://www.catalog.com/favision/latnoweb.htm* Provides a platform for Latino organizations to make their information available to the Internet. [Exp. #141.]

Napa Valley PC Users Group *http://community.net/~stevefc/index.html* The home page for the Napa Valley PC Users Group. [Exp. #141.]

National Air And Space Museum *http://www.nasm.edu* Research resources, learning materials, info; event calendar; museum tour; Center for Earth and Planetary Studies; more. [Exp. #145.]

OCSUG Home Page *http://halide.acs.uci.edu/* Home page of the Orange County Sun User Group. [Exp. #143.]

Pacific Lutheran University *http://www.cs.plu.edu/tour/tour.html* A virtual tour of Pacific Lutheran University's campus is as close as your computer screen. [Exp. #145.]

Podiatric Medicine And Surgery Network *http://www.aimnet.com/~rwunder/podmet.htm* Information for studying and practicing Podiatrists, geared toward The California College of Podiatric Medicine. [Exp. #145.]

SK Writers Home Page *http://www.skwriters.com* A placement agency specializing in technical pubs, marcom, and training professionals. [Exp. #141.]

Spectrum Virtual University *http://www.pacificnet.net/~spectrum/campus* Progressive "virtual university" offers free classes via the Internet on subjects from mainstream to alternative. [Exp. #145.]

Stanford University Bechtel International Center *http://fugi.Stanford.edu/icenter/icenter.html* Programs and services offered by I-Center for Int'l. students/scholars, families, and students who want to travel abroad. [Exp. #141.]

U.S. Navy Recruiting Command *http://www.navyjobs.com* Browse through selected topics, including Jobs in the Fleet, Medical Jobs, Worldwide Travel, and Benefits. [Exp. #145.]

West Coast Online *http://www.wco.com/* West Coast Online's home page. [Exp. #145.]

Windows 95 Annoyances *http://ocf.berkeley.edu/~daaron/win95ann.html* A forum for Windows 95 users with helpful tips to overcome some of the minor annoying limitations and design flaws. [Exp. #145.]

PERSONAL HOME PAGES

AYL Home Page *http://www.aimnet.com/~ayl/homey.htm* A home page full of exciting links to unique places and great invest opportunities. [Exp. #145.]

Bob Bickford *http://www.well.com/Community/rab/index.html* The still-evolving home page of a Professional Wild-Eyes Visionary. [Exp. #145.]

Cindy's Home Page *http://www.pacificnet.net/~roncin* [Exp. #145.]

Douglas's Home Page *http://www.primenet.com/~douglask/* If you are interested in probation or X-Ray technology leave a note here. Links to many legal sources. [Exp. #145.]

Healthy Flying *http://galaxy.einet.net:80/galaxy/Leisure-and-Recreation/Travel/diana-fairechild/healthy.html* Info about jet lag, healthy flying, and other air travel-related issues. [Exp. #145.]

Home Page Of Robert Capps *http://www.ccnet.com/~rc* An ever-changing collection of cool links and information on setting up your own home page. [Exp. #145.]

Hypnotherapy By Rosa Kitchen *http://www.hetdl.com/~kitchen* Calm, calmer, calmest. Develop a solid, unshakable personal power. Heal from within through hypnosis. [Exp. #143.]

Jeff's Homepage—The Quam *http://www.emf.net/~quam* Jeff's Homepage and link to the Pirate Squid Club. Lots of useless nonsense. [Exp. #141.]

Jow's trueSpace Home Page *http://csual.cs.ucla.edu/truespace* Provides images, utilities, and links of interest to the Caligari trueSpace user. [Exp. #140.]

Joyous Guard *http://www.deltanet.com/users/roy/home.html* Links to a variety of interesting sites: adult, hacking, movies, music, philosophy, sci-fi, and indices. [Exp. #145.]

Lynda Williams Home Page *http://www.physics.sfsu.edu/grad/lwilliam/lwilliam.html* Physics graduate student by day, cabaret performer by night, Lynda Williams calls herself a "Science Entertainer." [Exp. #145.]

Mark Holt's Home Page *http://www.sun.com/sunsoft/cdware/mark.html* Sun Microsystems and Solaris links, interview with Yahoo creators, and other cool links. Updated weekly! [Exp. #145.]

Mike Russ's HomePage *http://www.primenet.com/~laurus* Tons o' cool stuff with the Web's most complete list of why some people should die. [Exp. #145.]

Patrick Salsbury's Home Page *http://www.visionware.com/pat.html* 110+ starting points for exploring the Web, HTML URL's, and me on a rock. :-) [Exp. #140.]

Robert Altman's Classic Rock Photography And What Not Shop *http://www.cea.edu/robert/* Altman's shooting life: Janis Joplin, the Stones, Jim Morrison; portraits/stories of Joe Montana, Groucho Marx. [Exp. #145.]

RVL Sci-Fi HomePage *http://www.csun.edu/~hbcsc093/rvl.html* Links to many science fiction sites, 3-D computer graphics and raytracing, and some other cool stuff... [Exp. #145.]

Sophal's Place *http://www.csua.berkeley.edu/~sophal* Sophal's home page has many links to Cambodian-related home pages, not to mention his favorite quotations. [Exp. #140.]

Steve's Hot Stuff! *http://www.sonic.net/~stephen/* Places to explore, useful links for finding helper apps, freeware, and shareware. User Group info. [Exp. #144.]

Tom Curtis's "Wide World Of Art" *http://www.slip.net/~tommy999* Evolving art-based home page including: multimedia, galleries, museums, sound, video, and public and personal art sites. [Exp. #142.]

Vinko Kojundzic's Home Page *http://maja.zems.fer.hr/~vkojun* This is a home page with nice pictures of Zagreb and a link to our official WWW server. [Exp. #140.]

Walt Perko's Home Page *http://slip.net/~wperko* See pics of CD-ROMs: 10,000 Sounds & Songs and MegaMODMadNess vol. 1. [Exp. #140.]

POLITICAL/SOCIAL

African Connections *http://www.melanet.com/melanet/connections* The Web site contains information on the *African Connection* TV series, a listing of available programming, forms for online feedback, news, and links to related organizations. [Exp. #145.]

Australian Embassy *http://www.aust.emb.nw.dc.us* General background on Australia, US-Australia trade, the defense relationship, and answers to frequently asked questions. [Exp. #140.]

Bacard's Privacy Page *http://www.well.com/user/abacard* Author Andre Bac-

List Your Web Page

To list your Web home page for FREE, send us the name of the page/site, the URL (address), and a fifteen-word description. Also, please include a contact name and phone number for our reference only. Listings will run for six issues unless renewed. We reserve the right to select listings on a space-available basis and to edit those listings as needed. Send your listing to: *JohnDownen@aol.com*; Web Listings, 3470 Buskirk Ave., Pleasant Hill, CA 94523; or fax to (510)934-3958.

Web Page Listings *continued...*

ard provides practical documents and links to protect your computer privacy. [Exp. #145.]

Bay Area Transit Information Project *http://server.berkeley.edu/Transit/* Provides up-to-date public transit information for the San Francisco Bay Area. [Exp. #140.]

Beijing World Wide Web *http://www.igc.apc.org/womensnet/beijing/* Up-to-the-minute information about the Fourth World Conference on Women in Beijing (August 30–September 15), more. [Exp. #145.]

California Libertarian Party *http://www.lp.org/lp/ca/lpc.html* Alternative politics for the golden state. [Exp. #145.]

Charlotte's Web—Government Reform Resources *http://www.emf.net/~cr* Links to government and citizen activist groups; ftp-able grassroots essays, articles; National Debt updates. [Exp. #145.]

Copyright Clearance Center *http://www.directory.net/copyright* Offers an automated process for obtaining and paying for reprint rights. [Exp. #143.]

County Of Orange *http://www.oc.ca.gov* Information on the Orange County board of supervisors, meetings, and press releases. [Exp. #142.]

Cryptography, PGP, And Your Privacy *http://draco.centerline.com:8080/~franl/crypto.html* Links to many of the Web's resources on cryptography, PGP documentation, privacy-related Web links. [Exp. #140.]

CyberLaw *http://www.portal.com/~cyberlaw/* Educational service on computer law for computer users published monthly, including CyberLaw and CyberLex archive. [Exp. #141.]

Democratic National Committee *http://www.earthlink.net:80/~cid/ccri/* Find out about the state's Democratic committee based in Los Angeles. This site also lists events and provides links to local Democratic Party organizations around the country. [Exp. #145.]

Democratic Party Home Page *http://www.webcom.com/~digitals* A place to find information on Democratic officials, organizations, and candidates. [Exp. #141.]

Digital Freedom Network *http://www.iia.org/dfn/* Circumventing censorship of published material by posting the works on the Internet. [Exp. #143.]

First Internet McChurch Tabernacle *http://mcchurch.org/mcdonna* At the hub, the core, the virtual beating heart of the WWW. [Exp. #145.]

Garden Of Remembrance *http://www.islandnet.com/~deathnet/garden.html* A way for a family member or friend to be immortalized in cyberspace with a multimedia obituary. [Exp. #145.]

Girvies Davis Home Page *http://www.mcs.net/~bkmurph/girvies.htm* Home page of Girvies Davis, Illinois death row inmate. Clemency petition, articles, "evidence," pictures, audio, more. [Exp. #142.]

Global Campus *http://www.csulb.edu/gc/* Distributed database containing new media for use in enhancing learning and teaching. For educational use. [Exp. #140.]

Global Futures Foundation *http://www.quiknet.com/globalff/globalfu.html* Environmental web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #145.]

Global Ideas Bank *http://newciv.org/worldtrans/BOV/BOVTOP.HTML* International suggestion box for ideas or projects for improving the quality of life. £31,000 annual award. [Exp. #145.]

Golden Retrievers In Cyberspace *http://www.rahul.net/hredlus/golden.html* Information on Golden Retrievers: how to find breeders, rescue groups, GRCA, and more. [Exp. #144.]

Grant Tracker Home Page *http://www.rahul.net/kendric* Software that keeps researchers from overspending their research grants. Download demos: DOS, Win, Mac. [Exp. #141.]

Institute For Global Communications Progressive Directory *http://www.igc.apc.org* [Exp. #145.]

Institute Of Heartmath *http://www.webcom.com/~hrtmath/IHM/AboutHM.html* Research-based training for developing enhanced intuitive intelligence to successfully manage mental and emotional choices. [Exp. #144.]

Interactivist *http://199.172.178.200* A place that facilitates Internet social education and activism. Also the home of Free Burma. [Exp. #141.]

Internet Health Resources *http://www.ihr.com* Extensive and practical health resource information for Internet users. [Exp. #142.]

Libertarian Party Of America *http://www.lp.org/lp/* America's Third Party. [Exp. #145.]

New Civilization Network *http://newciv.org/worldtrans/newcivnet.html* "To make the world a better place." Free space for many nonprofits. [Exp. #145.]

Oceania, The Atlantis Project *http://oceania.org* Want to talk about forming a new country? Come visit us. [Exp. #145.]

ParentsPlace.Com *http://www.parentsplace.com/* The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and childcare products. [Exp. #143.]

Qui Tam Information Center *http://www.quitam.com* A place for whistleblowers and attorneys to gain information in pursuing qui tam actions. [Exp. #145.]

Remembering Nagasaki *http://www.exploratoruim.edu/nagasaki* A WWW page and Internet exhibit at the Exploratorium as part of the world's observance of the 50th anniversary of the bombings of Hiroshima and Nagasaki. [Exp. #145.]

Rivendel Pages *http://umbc8.umbc.edu/akhatt1/Rivendel.html* Multiuser chat sites dedicated to communications for global understanding and creative expression. Come visit us. [Exp. #142.]

San Jose State University Continuing Education *http://conted.sjsu.edu/* Degree credit, certificate, and professional development courses open to all adults—on and off campus. [Exp. #142.]

Santa Monica Web *http://www.smweb.com* City of Santa Monica in cyberspace. A city guide featuring visitor information, business directory, news. [Exp. #145.]

Seminars In Usable Design *http://www.infodesign.com/usable.design* Seminars in online information design, UI design, and usability testing. Leaders include William Horton. [Exp. #141.]

Southern California Gay Wired *http://www.gaywired.com/~unity/index.html* The new, interactive source for today's gay and lesbian community in Southern California. [Exp. #145.]

Stanford Center For Tuberculosis Research *http://molepi.stanford.edu* Research at Stanford University tracking the spread of tuberculosis in San Francisco. [Exp. #140.]

Tax Prophet *http://www.taxprophet.com* The Tax Prophet deciphers the Internal Revenue Code for taxpayers and professionals alike. [Exp. #141.]

This Is True *http://infoark.com/freecom/* Home of the popular "This Is True" newspaper column, which is also available by listserv. [Exp. #144.]

UC Riverside, California Museum Of Photography *http://cmp1.ucr.edu* Historical photographs, contemporary media arts, and children's projects are at the UCR/California Museum of Photography. [Exp. #140.]

UC Santa Cruz Extension Catalog *http://www.ucsc.edu/unex* Quarterly, UCSC Extension provides its catalog of 500 courses, as well as events and information. [Exp. #141.]

USS Liberty Home Page *http://www.halcyon.com/jim/ussliberty/* Information and files about the American ship that was attacked by the Israelis during the Six Day War. [Exp. #143.]

Wellness Essentials *http://voyager.via.net/netbiz/weles.html* The home page of wellness information and nutritional products and more. [Exp. #141.]

Yoga Fitness *http://www.iyouga.com/yf/* Yoga Fitness is the premier Iyengar yoga studio in the South Bay. [Exp. #144.]

you@here.now *http://www.webcom.com/~blessed* Interactive philosophical site that allows you to share your contemporaneous thoughts with your fellow beings. [Exp. #140.]

WEB/INTERNET SERVICES

Bay Area Internet Solutions *http://www.bayarea.net* Full service ISP, specializing in connecting businesses to the Internet. Web design and hosting. (408)447-8690. [Exp. #144.]

Binary Services Solutions *http://www.kaiwan.com/~npham* Provider of Internet home page publishing, FoxPro, and C++ business applications. Free initial consultation. [Exp. #142.]

Bonsai Software *http://www.bonsai.com/* Bonsai Software, Inc.—software consultants, WWW setup, and WWW hosting services. [Exp. #145.]

CCnet Inc. *http://www.ccnet.com* Prices and services for CCnet, an ISP for the Bay Area and Silicon Valley. Excellent resource for home buyers in Contra Costa County. [Exp. #145.]

Creative Element Home Page *http://ocf.berkeley.edu/~daaron/creative.html* Home page for Creative Element, specializing in web production, graphic design, software engineering, and computer consulting. [Exp. #145.]

eCenter *http://www.ecenter.com* Putting businesses on the WWW in Virtual Trade Shows, general categories, email paging, business information. [Exp. #141.]

Fountainhead Internet Systems WWW Site *http://www.earthlink.net/~fountainhead* Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #141.]

Global Communications Group *http://www.global-com.com/global* Internet consulting, training, seminars, Web page production. Ten years Internet R&D experience. [Exp. #140.]

Gregory Springer Multimedia *http://www.webcom.com/~gsmmedia* Multimedia and home page design. Create Windows .EXEs and Help files for floppy or Internet distribution. [Exp. #145.]

Home Pages, Inc. *http://www.homepages.com/* A full-service WWW authoring firm and creators of the World Wide Yellow Pages at *http://www.yellow.com/*. [Exp. #140.]

HTML To ICADD/Braille *http://www.ucla.edu/ICADD/html2icadd-form.html* This form allows valid HTML to be transformed to ICADD and/or Braille for print-impaired users. [Exp. #142.]

HYNET Technologies *http://www.hynet.com* Providing unique systems that seamlessly integrate hypertext, smart search engines (HYNET), and databases for CD-ROM and Internet publishing. [Exp. #144.]

I-Comm: Web Surfing Without SLIP/PPP *http://www.best.com/~icomm/icomm.htm* I-Comm is a full-feature graphical WWW browser which doesn't need SLIP/PPP connections. [Exp. #141.]

IKON Communications *http://www.ikon.com* Web page designers—filmmakers with great taste and a sense of humor. [Exp. #145.]

InterBIZnet *http://www.ibiznet.com/* We provide businesses in Southern California with Web design, hosting online marketing, and Internet expertise. [Exp. #143.]

Internet Literacy Consultants *http://www.matisse.net* We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #145.]

Internet MainStreet *http://www.mainstreet.net* ISDN and leased line Internet provider for Silicon Valley. Cool eclipse photo. [Exp. #140.]

Internet Presence Providers *http://www.internex.net/ipp* Providing businesses with complete Web site design. Focusing on real estate, art, investments, and online malls. [Exp. #140.]

InVision Consulting *http://www.iconsulting.com/* Leading solution provider of Web page development, Internet connectivity, training, etc. We do it all! [Exp. #142.]

IRIS Media Systems *ftp://ftp.netcom.com/pub/rl/rlai/ www/home.html* Home of Xantippe—The Information Structuring Workbench, a Windows hypertext/hypergraphics authoring environment for HTML files. [Exp. #141.]

ISDN*tek *http://www.isdntek.com* PC-based hardware for high-speed ISDN access. [Exp. #142.]

JES & Associates, Inc. *http://www.jes.com/jes* Hands-on workshops covering PICK, Advanced PICK, Unidata, uniVerse, UNIX, Internet, and WWW. [Exp. #144.]

Launch Point Internet Service *http://www.lpoint.com* How to get a Web site for your company. [Exp. #142.]

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NetWings *http://netwings.com* NetWings is a software package that turns a small Macintosh into a full Internet server. [Exp. #143.]

Only Multimedia, Inc. *http://www.webcom.com/~only* A widely known super hot WWW site that your company can be a part of! (818)753-0037. [Exp. #142.]

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PacNetWeb *http://www.pacnet.com* Pacific Internet and its PacNetWeb are your single source for Internet products and services. [Exp. #144.]

Plug Into AVCom *http://siesta.packet.net/avcom/* Total solutions Web source. We will help you deliver your business concepts via the WWW. [Exp. #143.]

sale@exodus.com *http://www.exodus.com* The complete solution to Internet access for business, education, and government applications. [Exp. #142.]

SpeedGate Communications *http://www.speed.net* Complete Internet service provider for the Orange County/Long Beach area. Information on services and prices. [Exp. #142.]

Starbox Grand Central *http://www.starbox.com/starbox/* Contact Tecnation Digital World for your own Starbox WWW site and inclusion in the intuitive Starbox directory. [Exp. #141.]

SuperBusiness NET *http://www.sbusiness.com* Web pages, ftp, and Internet services for business. We will be featuring secure transactions via the Web. [Exp. #140.]

SupraNet Communications *http://www.supranet.com/* Learn how to create an effective presence on the Internet quickly. Hyperlinked with a glossary. [Exp. #145.]

Vidya Media Ventures *http://www.vidya.com/* Combine solid technical awareness with creative energy to produce outstanding electronic media for the Internet and WWW. [Exp. #145.]

Visual Engineering's Ovation Web Page *http://www.cdrom.com/pub/ viseng/* This site features Ovation, a UNIX presentation package. Release 2.0 includes HTML export and PowerPoint import! [Exp. #143.]

Wave Network *http://www.wavenet.com* The Wave Network provides fast, reliable Internet access and Web design to Los Angeles. (213)933-9283. [Exp. #142.]

Web Communications Corp. Home Page *http://www.webcom.com/* Self-service, value-added, inexpensive WWW publishing services. [Exp. #141.]

Webs Are Us *http://www.websrus.com* The Internet experts for design, servicing, monitoring, and hosting your business presence on the WWW. [Exp. #142.]

Fantasies *continued from page 30...*

this was going to be widely publicized, did you?). The period for initial public response closed July 25th.

But there's still ample opportunity for substantive howls and input—not only to the FCC (see end of column), but also to our Congress-critters who keep bleating about how they want to support competition, innovation, job creation, government efficiency, and so on.

Next Steps

Assuming this petition survives the initial comments and responses, the next formal step will be for the FCC to put out a Notice of Inquiry (NOI). This will start the long formal rule-making cycle.

In order to make this a public issue—rather than leaving it in the comfy domain of the Beltway bandits—we need to get the public to respond whenever they can and however they can. The Commission will not discard comments that are submitted in anything close to a normal format. Anything that is filed after the now-past comment dates will be treated as *ex parte* communications—which is just fine for comments from concerned citizens, community groups, non-telecomm businesses, and local officials.

If all this continues to move forward, there will eventually be a technical forum created to begin addressing a *major* collection of technical problems (don't think this is easy!).

But if we can just get the FCC to support the notion of metro-range, *nonproprietary*, shared, public wireless communications—then the people will come.

Details & Action

A copy of the petition and extensive ancillary information is available on Dewayne Hendricks' WWW site at *http://www.warpspeed.com/* . (Dewayne is another major, longtime wireless datacomm guru.)

After reviewing it, you can help it happen by sending your signed original comments, in favor of RM-8653, and a copy to:

Secretary, Federal Communications Commission, 1919 M Street, N.W., Washington, DC 20554. Use letterhead if appropriate.

In a late-breaking development, the FCC has agreed to accept emailed comments at these addresses:

RM-8648@fcc.gov (WINForum)
RM-8653@fcc.gov (Apple)

You can also fax your comments, including signature, to Apple's legal counsel in Washington—(202)429-4912—and they will deliver them to the FCC.

And don't forget to tell your congressional representatives and the White House that we want a public share of the nation's bandwidth!

On July 12th, *The Washington Post* ran a major article about the proposal—complete with pictures of how it could work—captioned, "A Toll-Free Lane on the Data Highway?"

It's time to begin construction. ■

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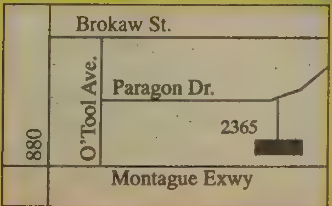

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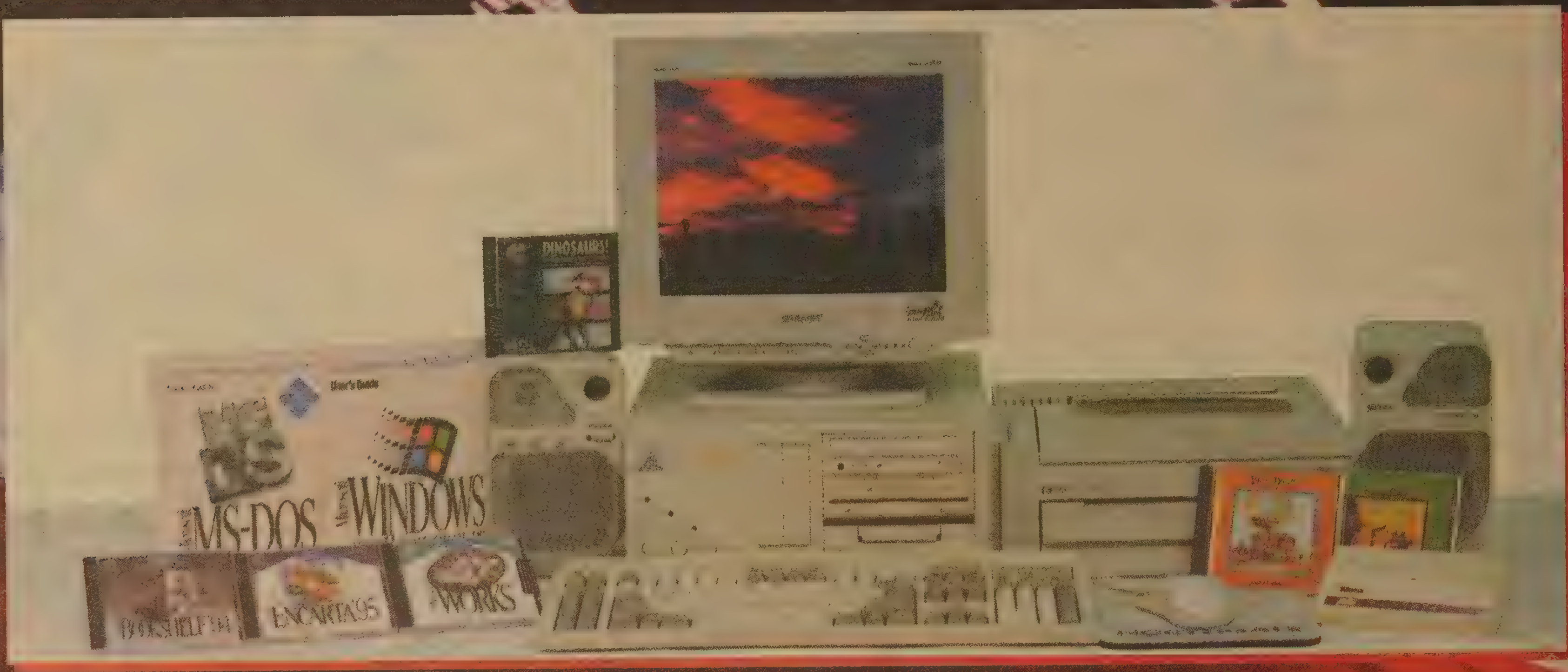

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P5-120/256C PCI (INTEL ENDEAVOR M/B)	318	908	N/A	1,178	1,328	1,338	1,528	1,618	1,788	2,118
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486SLC2-66/64C VLB (IBM M/B)	N/A	114	264	374	514	524	714	804	974	1,304
486 DX2-66C ISA	56	110	260	370	510	520	710	800	970	1,300
486DLC-40/128C ISA	N/A	98	248	358	498	508	698	788	958	1,288
486SLC-33 ISA	N/A	64	214	324	464	474	664	754	924	1,254
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P5-75/256K PCI (Intel Plato)	1,418
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P5-90/256K PCI (Intel Endeavor)	1,718
P5-100/256K PCI (Intel Endeavor)	1,818
P5-120/256K PCI (Intel Endeavor)	1,998
P5-133/256K PCI (Intel Endeavor)	2,128
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5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
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8. All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers, excludes peripherals and software. No refunds after 30 days.
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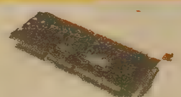

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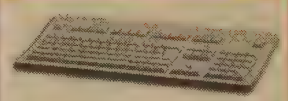

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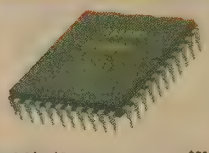

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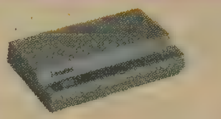

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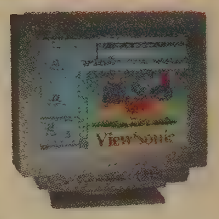

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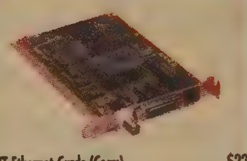

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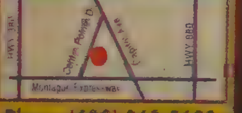

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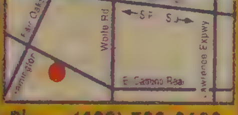

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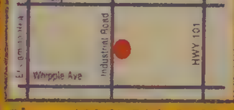

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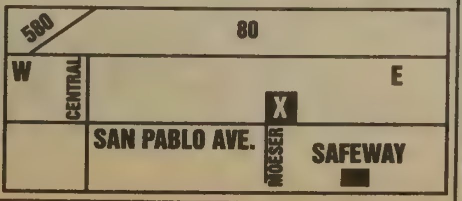

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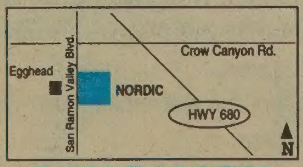

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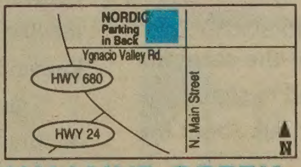

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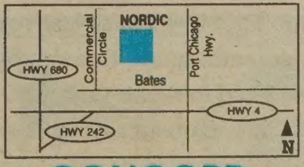

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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

The Time Has Come To Repay The Debt

or

The Devil Has His Due

I don't give *much credence to these kinds of stories. Especially when they are tied to stones as notes and flung on my porch along with solicitations for gardening services.*

Still, it seemed worth repeating.

The author is Julian Lovelace.

This is the truth, Dvorak! Read on and believe!

There's a back room at the Redmond Campus. It's called the Redmond Lounge and only a few select Microsoft employees have ever been allowed inside—or so the story goes. From what I have pieced together, the room was built for Satan himself, as was the Redmond campus.

If you don't believe it, rent a helicopter and check out the design from directly overhead. The whole place is shaped like the Satanic Talisman called Wah Fender Yeh. This is no joke.

At the point of the eye of the Wah Fender Yeh talisman is the Redmond Lounge. There is an executive office there with a closet. The closet is actually an elevator, and you get inside and go down two floors to the Lounge. It's also called the meditation room by people who have been there.

If you wonder why I know so much, I can tell you that I was the electrician who wired the thing, and although I had no clue about it at the time I got to go back last year. Apparently a rat or something ate through one of the conduits and I had to repair the wires. I had to sign some sort of document saying I'd never talk about the room.

There are a bunch of little shrines, all surrounding a large black chair that looks kind of like an electric chair—only creepier. There are a bunch of niches in the wall, each with a small urn. I believe that within these walls they perform ceremonies to curse competitors and their products. I examined the contents of one urn, and I found ashes and one unburnt piece that I'm sure was the remains of the Lotus Notes box.

I'm fixing the conduit, and behind me one of the walls swings open, like a door. A guy in a long black robe marches up—up, mind you!!—some steps and walks into the room. I have no idea where these steps come from. I could see that they went way down, and a yellowish red glow came from down there too!

Anyway, this guy glides in. Like he was on roller bearings or something. Black outfit, black shawl. I'm telling you, he looked exactly like that horrible creep in the last *Star Wars* movie. You know the guy with the yellow eyes? Well, this was the guy, no kidding!

He glides right up to my face. I see those yellow eyes and freeze. "Excuse me," he says softly, "when are you going to be done with those repairs?"

"In a few minutes," is all I could say. So he says, "The sooner the better." "Yes, sir!" I said.

The guy turns around, again like on ball bearings, and slides back to the door. He slips down the stairs as the wall closes behind him. Before I could begin hyperventilating, which is what I wanted to do, the elevator door opens and in comes a carpenter. Nonchalant. He says hi to me like he comes in this place every day and has known me for years.

"I guess you're the electrician, eh?" he asks in a Canadian accent.

"Yeah, I am. The weirdest thing just happened. Some geezer in black came through that wall and chatted with me. The guy had yellow eyes. I'd swear it was the devil himself. I mean, it was horrible."

"That guy? Yeah, he is the devil. He comes in here to pester you to work faster. I've seen him a couple of times. I understand he works here. Some forces-of-evil thing Microsoft uses as a marketing tool.

"At least that's what an old girlfriend told me who used to work in this wing. Most of the people in this wing know about that guy. I think he has an office down the stairway he came up. When I first ran into him I thought it was some sort of elaborate gag, but apparently it's not. Somehow the company has managed to summon the devil to help them become what they have become. How else could they do it? I asked one of the executives about it, and was told I'd be fired if I ever discussed it again."

"Doesn't any of this bother you?"

"Naw, I'm a contractor. As long as they pay me, I'm fine with it."

Just then a camera slowly descended from the ceiling. A small speaker was underneath the lens. "Mr. Lovelace, please finish what you're doing and report to the second floor immediately." The camera rose back into the ceiling.

The carpenter looked at me. "I think you're in trouble. Asking too many questions maybe?"

Just then the elevator door opened and I rushed in and pushed 2. As the door closed, I quickly pushed 1 and jumped out of the elevator on the first floor, rushed out of the building and into my car. I swear a siren sounded, but I eluded any pursuit.

Now I'm in Manteca, holed up at the Motel 6. I think I stumbled onto something. Tell my story, please!

To: Julian. I think it's an elaborate scheme to keep you from invoicing them for the electrical work. ■

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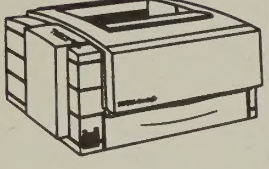

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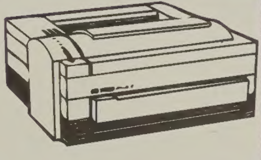

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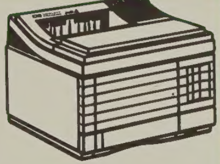

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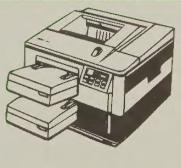

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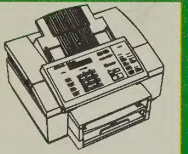

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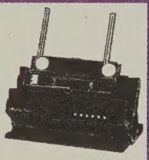

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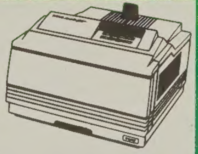

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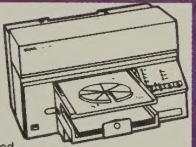

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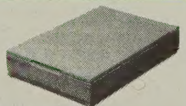

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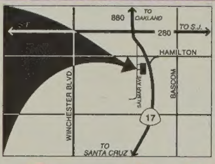
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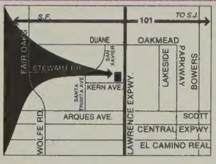
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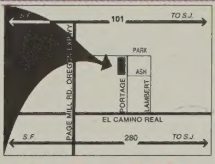
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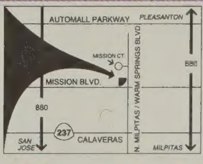
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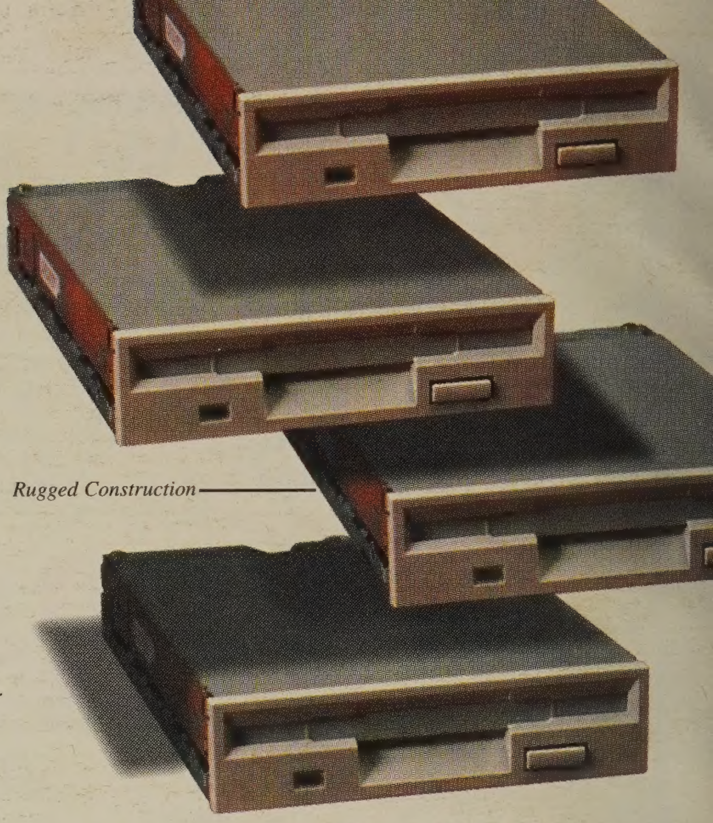

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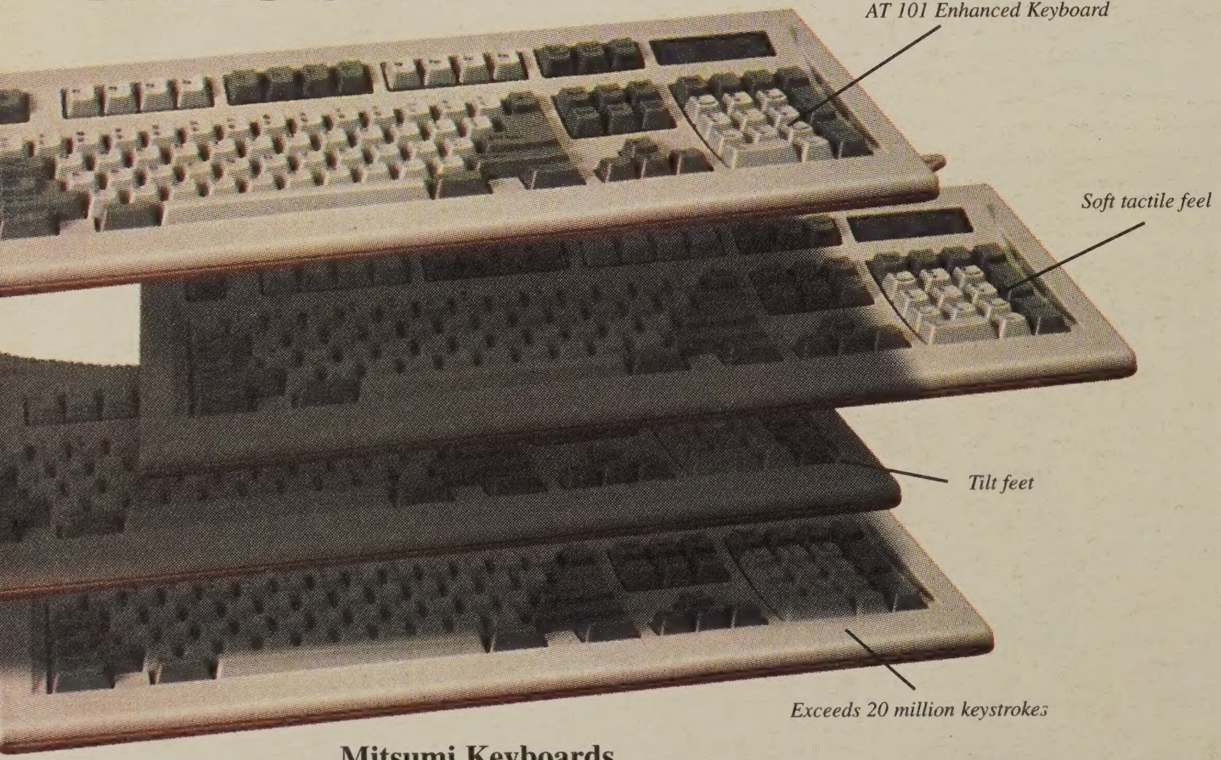

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